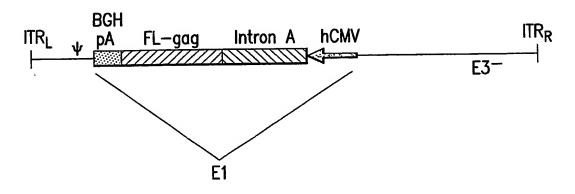
PCT/US03/07727

1/70

ORIGINAL ADENOVECTOR CONSTRUCT:



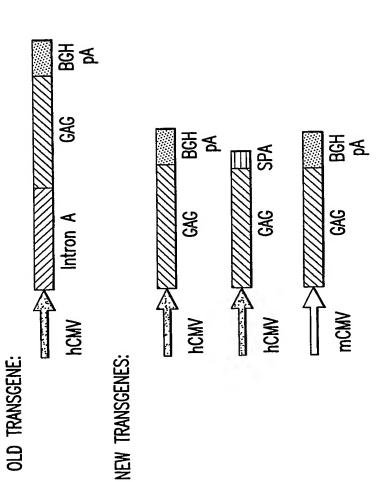
ORIGINAL HIV-1 gag ADENOVECTOR.

FIG.1

Sequence of the open reading frame for FL-gag (human codon optimized)

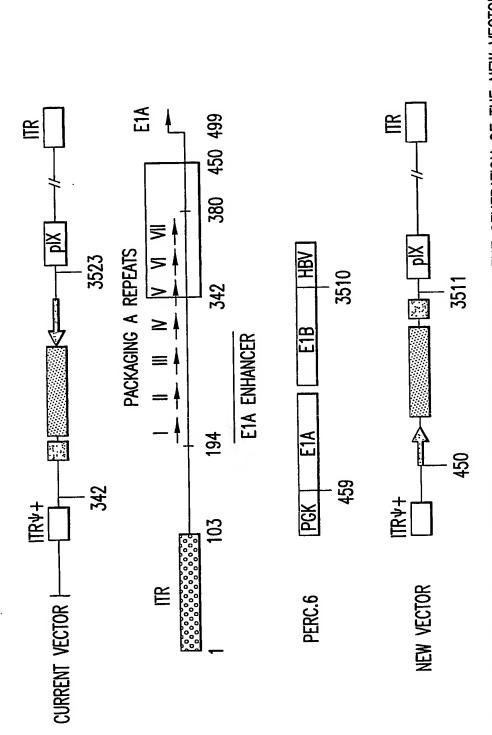
atgggtgctagggcttctgtgctgtctggtggtgagctggacaagtgggagaagatcaggctgaggcctggtggcaagaagaagtacaagctaaagcacattgtgtgggcctccagggagctggagaggtttgctgtgaaccctggc agctgaggtccctgtacaacacagtggctaccctgtactgtgtgcaccagaagattgatgtgaaggacaccaag gaggccctggagaagattgaggaggagcagaacaagtccaagaagaaggcccagcaggctgctgctgc acaggcaactccagccaggtgtcccagaactaccccattgtgcagaacctccagggccagatggtgcaccag gccatctcccccggaccctgaatgcctgggtgaaggtggtggaggagaaggccttctcccctgaggtgatccc catgttctctgccctgtctgagggtgccacccccaggacctgaacaccatgctgaacacagtggggggccatc aggctgccatgcagatgctgaaggagaccatcaatgaggaggctgctgagtgggacaggctgcatcctgtgc acgctggcccattgccccggccagatgagggagcccaggggctctgacattgctggcaccacctccaccct ccaggagcagattggctggatgaccaacaccccccatccctgtgggggaaatctacaagaggtggatcat cccttcagggactatgtggacaggttctacaagaccctgagggctgagcaggcctcccaggaggtgaagaact ggatgacagagaccctgctggtgcagaatgccaaccctgactgcaagaccatcctgaaggccctgggccctg ctgccaccctggaggagatgatgacagcctgccagggggtggggggccctggtcacaaggccagggtgctg gctgaggccatgtcccaggtgaccaactccgccaccatcatgatgcagaggggcaacttcaggaaccagag gaagacagtgaagtgcttcaactgtggcaaggtgggccacattgccaagaactgtagggcccccaggaaga agggctgctggaagtgtggcaaggaggccaccagatgaaggactgcaatgagaggcaaggccaacttcctg ggcaaaatctggcctccacaagggcaggcctggcaacttcctccagtccaggcctgagcccacagccct agctgtacccctggcctcctgaggtccctgtttggcaacgacccctcctcccagtaaaataaagcccgggca gat

FIG.2



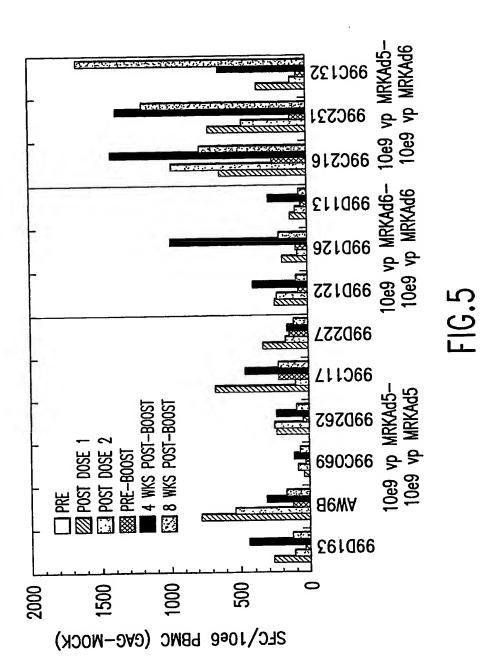
DIAGRAMMATIC REPRESENTATION OF THE ORIGINAL HIV-1 GAG TRANSGENE AND THE SERIES OF NEW TRANSGENE CONSTRUCTIONS.

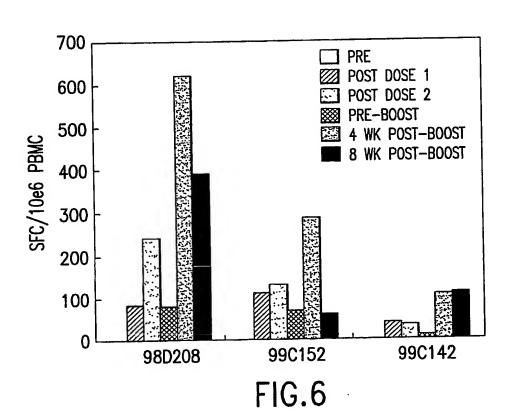
FIG.3



MODIFICATIONS MADE TO THE CURRENT ADENOVECTOR BACKBONE IN THE GENERATION OF THE NEW VECTOR.

F16.4





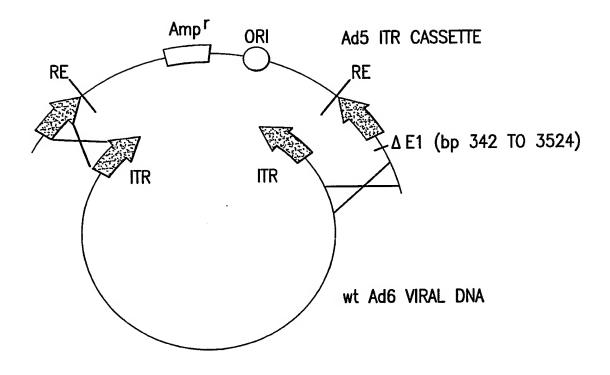
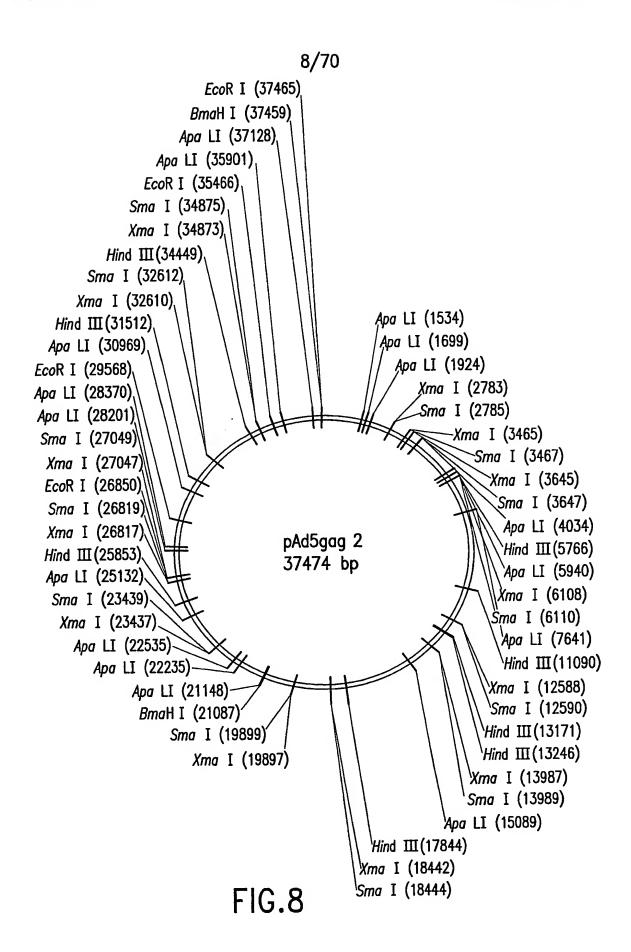


FIG.7



PacI TTCTTAATTA ACATCATCAA TAATATACCT TATTTTGGAT TGAAGCCAAT AAGAATTAAT TGTAGTAGTT ATTATATGGA ATAAAACCTA ACTTCGGTTA 51 ATGATAATGA GGGGGTGGAG TTTGTGACGT GGCGCGGGGC GTGGGAACGG TACTATTACT CCCCCACCTC AAACACTGCA CCGCGCCCCG CACCCTTGCC 101 GGCGGGTGAC GTAGTAGTGT GGCGGAAGTG TGATGTTGCA AGTGTGGCGG CCGCCCACTG CATCATCACA CCGCCTTCAC ACTACAACGT TCACACCGCC AACACATGTA AGCGACGGAT GTGGCAAAAG TGACGTTTTT GGTGTGCGCC 151 TTGTGTACAT TCGCTGCCTA CACCGTTTTC ACTGCAAAAA CCACACGCGG 201 GGTGTACACA GGAAGTGACA ATTTTCGCGC GGTTTTAGGC GGATGTTGTA CCACATGTGT CCTTCACTGT TAAAAGCGCG CCAAAATCCG CCTACAACAT 251 GTAAATTTGG GCGTAACCGA GTAAGATTTG GCCATTTTCG CGGGAAAACT CATTTAAACC CGCATTGGCT CATTCTAAAC CGGTAAAAGC GCCCTTTTGA 301 GAATAAGAGG AAGTGAAATC TGAATAATTT TGTGTTACTC ATAGCGCGTA CTTATTCTCC TTCACTITAG ACTTATTAAA ACACAATGAG TATCGCGCAT 351 ATATTTGTCT AGGGCCGCGG GGACTTTGAC CGTTTACGTG GAGACTCGCC TATAAACAGA TCCCGGCGCC CCTGAAACTG GCAAATGCAC CTCTGAGCGG 401 CAGGTGTTTT TCTCAGGTGT TTTCCGCGTT CCGGGTCAAA GTTGGCGTTT GTCCACAAAA AGAGTCCACA AAAGGCGCAA GGCCCAGTTT CAACCGCAAA 451 TATTATTATA GGCGGCCGCG ATCCATTGCA TACGTTGTAT CCATATCATA ATAATAATAT CCGCCGGCGC TAGGTAACGT ATGCAACATA GGTATAGTAT 501 ATATGTACAT TTATATTGGC TCATGTCCAA CATTACCGCC ATGTTGACAT TATACATGTA AATATAACCG AGTACAGGTT GTAATGGCGG TACAACTGTA TGATTATTGA CTAGTTATTA ATAGTAATCA ATTACGGGGT CATTAGTTCA 551 ACTAATAACT GATCAATAAT TATCATTAGT TAATGCCCCA GTAATCAAGT TAGCCCATAT ATGGAGTTCC GCGTTACATA ACTTACGGTA AATGGCCCGC 601 ATCGGGTATA TACCTCAAGG CGCAATGTAT TGAATGCCAT TTACCGGGCG 651 CTGGCTGACC GCCCAACGAC CCCCGCCCAT TGACGTCAAT AATGACGTAT GACCGACTGG CGGGTTGCTG GGGGCGGGTA ACTGCAGTTA TTACTGCATA 701 GTTCCCATAG TAACGCCAAT AGGGACTTTC CATTGACGTC AATGGGTGGA CAAGGGTATC ATTGCGGTTA TCCCTGAAAG GTAACTGCAG TTACCCACCT 751 GTATTTACGG TAAACTGCCC ACTTGGCAGT ACATCAAGTG TATCATATGC

FIG.9A-1

CATAAATGCC ATTTGACGGG TGAACCGTCA TGTAGTTCAC ATAGTATACG

801	CAAGTACGCC	CCCTATTGAC	GTCAATGACG	GTAAATGGCC	CGCCTGGCAT
	GTTCATGCGG	GGGATAACTG	CAGTTACTGC	CATTTACCGG	GCGGACCGTA
851	TATGCCCAGT	ACATGACCTT	ATGGGACTTT	CCTACTTGGC	AGTACATCTA
	ATACGGGTCA	TGTACTGGAA	TACCCTGAAA	GGATGAACCG	TCATGTAGAT
901	CGTATTAGTC	ATCGCTATTA	CCATGGTGAT	GCGGTTTTGG	CAGTACATCA
	GCATAATCAG	TAGCGATAAT	GGTACCACTA	CGCCAAAACC	GTCATGTAGT
951	ATGGGCGTGG	ATAGCGGTTT	GACTCACGGG	GATTTCCAAG	TCTCCACCCC
	TACCCGCACC	TATCGCCAAA	CTGAGTGCCC	CTAAAGGTTC	AGAGGTGGGG
1001	ATTGACGTCA	ATGGGAGTTT	GTTTTGGCAC	CAAAATCAAC	GGGACTTTCC
	TAACTGCAGT	TACCCTCAAA	CAAAACCGTG	GTTTTAGTTG	CCCTGAAAGG
1051	AAAATGTCGT	AACAACTCCG	CCCCATTGAC	GCAAATGGGC	GGTAGGCGTG
	TTTTACAGCA	TTGTTGAGGC	GGGGTAACTG	CGTTTACCCG	CCATCCGCAC
1101	TACGGTGGGA	GGTCTATATA	AGCAGAGCTC	GTTTAGTGAA	CCGTCAGATC
	ATGCCACCCT	CCAGATATAT	TCGTCTCGAG	CAAATCACTT	GGCAGTCTAG
1151	GCCTGGAGAC	GCCATCCACG	CTGTTTTGAC	CTCCATAGAA	GACACCGGGA
	CGGACCTCTG	CGGTAGGTGC	GACAAAACTG	GAGGTATCTT	CTGTGGCCCT
1201	CCGATCCAGC	CTCCGCGGCC	GGGAACGGTG	CATTGGAACG	CGGATTCCCC
	GGCTAGGTCG	GAGGCGCCGG	CCCTTGCCAC	GTAACCTTGC	GCCTAAGGGG
1251	GTGCCAAGAG	TGAGATCTAC	CATGGGTGCT	AGGGCTTCTG	TGCTGTCTGG
	CACGGTTCTC	ACTCTAGATG	GTACCCACGA	TCCCGAAGAC	ACGACAGACC
1301	TGGTGAGCTG	GACAAGTGGG	AGAAGATCAG	GCTGAGGCCT	GGTGGCAAGA
	ACCACTCGAC	CTGTTCACCC	TCTTCTAGTC	CGACTCCGGA	CCACCGTTCT
1351	AGAAGTACAA	GCTAAAGCAC	ATTGTGTGGG	CCTCCAGGGA	GCTGGAGAGG
	TCTTCATGTT	CGATTTCGTG	TAACACACCC	GGAGGTCCCT	CGACCTCTCC
1401	TTTGCTGTGA	ACCCTGGCCT	GCTGGAGACC	TCTGAGGGGT	GCAGGCAGAT
	AAACGACACT	TGGGACCGGA	CGACCTCTGG	AGACTCCCCA	CGTCCGTCTA
1451	CCTGGGCCAG	CTCCAGCCCT	CCCTGCAAAC	AGGCTCTGAG	GAGCTGAGGT
	GGACCCGGTC	GAGGTCGGGA	GGGACGTTTG	TCCGAGACTC	CTCGACTCCA
1501	CCCTGTACAA	CACAGTGGCT	ACCCTGTACT	GTGTGCACCA	GAAGATTGAT
	GGGACATGTT	GTGTCACCGA	TGGGACATGA	CACACGTGGT	CTTCTAACTA
1551	GTGAAGGACA	CCAAGGAGGC	CCTGGAGAAG	ATTGAGGAGG	AGCAGAACAA
	CACTTCCTGT	GGTTCCTCCG	GGACCTCTTC	TAACTCCTCC	TCGTCTTGTT
1601	GTCCAAGAAG	AAGGCCCAGC	AGGCTGCTGC	TGGCACAGGC	AACTCCAGCC
	CAGGTTCTTC	TTCCGGGTCG	CTCCGACGACC	ACCGTGTCCG	TTGAGGTCGG

1651	AGGTGTCCCA	GAACTACCCC	ATTGTGCAGA	ACCTCCAGGG	CCAGATGGTG
	TCCACAGGGT	CTTGATGGGG	TAACACGTCT	TGGAGGTCCC	GGTCTACCAC
1701	CACCAGGCCA	TCTCCCCCG	GACCCTGAAT	GCCTGGGTGA	AGGTGGTGGA
	GTGGTCCGGT	AGAGGGGGGC	CTGGGACTTA	CGGACCCACT	TCCACCACCT
1751	GGAGAAGGCC	TTCTCCCCTG	AGGTGATCCC	CATGTTCTCT	GCCCTGTCTG
	CCTCTTCCGG	AAGAGGGGAC	TCCACTAGGG	GTACAAGAGA	CGGGACAGAC
1801	AGGGTGCCAC	CCCCCAGGAC	CTGAACACCA	TGCTGAACAC	AGTGGGGGGC
	TCCCACGGTG	GGGGGTCCTG	GACTTGTGGT	ACGACTTGTG	TCACCCCCCG
1851	CATCAGGCTG	CCATGCAGAT	GCTGAAGGAG	ACCATCAATG	AGGAGGCTGC
	GTAGTCCGAC	GGTACGTCTA	CGACTTCCTC	TGGTAGTTAC	TCCTCCGACG
1901	TGAGTGGGAC	AGGCTGCATC	CTGTGCACGC	TGGCCCCATT	GCCCCCGGCC
	ACTCACCCTG	TCCGACGTAG	GACACGTGCG	ACCGGGGTAA	CGGGGGCCGG
1951	AGATGAGGGA	GCCCAGGGGC	TCTGACATTG	CTGGCACCAC	CTCCACCCTC
	TCTACTCCCT	CGGGTCCCCG	AGACTGTAAC	GACCGTGGTG	GAGGTGGGAG
2001	CAGGAGCAGA	TTGGCTGGAT	GACCAACAAC	CCCCCCATCC	CTGTGGGGGA
	GTCCTCGTCT	AACCGACCTA	CTGGTTGTTG	GGGGGGTAGG	GACACCCCCT
2051	AATCTACAAG	AGGTGGATCA	TCCTGGGCCT	GAACAAGATT	GTGAGGATGT
	TTAGATGTTC	TCCACCTAGT	AGGACCCGGA	CTTGTTCTAA	CACTCCTACA
2101	ACTCCCCCAC	CTCCATCCTG	GACATCAGGC	AGGGCCCCAA	GGAGCCCTTC
	TGAGGGGGTG	GAGGTAGGAC	CTGTAGTCCG	TCCCGGGGTT	CCTCGGGAAG
2151	AGGGACTATG	TGGACAGGTT	CTACAAGACC	CTGAGGGCTG	AGCAGGCCTC
	TCCCTGATAC	ACCTGTCCAA	GATGTTCTGG	GACTCCCGAC	TCGTCCGGAG
2201	CCAGGAGGTG	AAGAACTGGA	TGACAGAGAC	CCTGCTGGTG	CAGAATGCCA
	GGTCCTCCAC	TTCTTGACCT	ACTGTCTCTG	GGACGACCAC	GTCTTACGGT
2251	ACCCTGACTG	CAAGACCATO	CTGAAGGCCC	TGGGCCCTGC	TGCCACCCTG
	TGGGACTGAC	GTTCTGGTAG	GACTTCCGGG	ACCCGGGACG	ACGGTGGGAC
2301	GAGGAGATGA	TGACAGCCTG	CCAGGGGGTG	G GGGGGCCCTG	GTCACAAGGC
	CTCCTCTACT	ACTGTCGGAC	GGTCCCCCAC	C CCCCCGGGAC	CAGTGTTCCG
2351	CAGGGTGCTG	GCTGAGGCCA	A TGTCCCAGGT	GACCAACTCO	GCCACCATCA
	GTCCCACGAC	CGACTCCGGT	F ACAGGGTCCA	CTGGTTGAGO	GCGGTGGTAGT
2401	TGATGCAGAG	GGGCAACTT(AGGAACCAG/	A GGAAGACAGT	GAAGTGCTTC
	ACTACGTCTC	CCCGTTGAA(TCCTTGGTC	F CCTTCTGTCA	CTTCACGAAG
2451	AACTGTGGCA TTGACACCGT	AGGTGGGCC/ TCCACCCGG	A CATTGCCAAG	G AACTGTAGGO C TTGACATCCO	GCCCCAGGAA GGGGGTCCTT

2501	GAAGGGCTGC	TGGAAGTGTG	GCAAGGAGGG	CCACCAGATG	AAGGACTGCA
	CTTCCCGACG	ACCTTCACAC	CGTTCCTCCC	GGTGGTCTAC	TTCCTGACGT
2551	ATGAGAGGCA	GGCCAACTTC	CTGGGCAAAA	TCTGGCCCTC	CCACAAGGGC
	TACTCTCCGT	CCGGTTGAAG	GACCCGTTTT	AGACCGGGAG	GGTGTTCCCG
2601	AGGCCTGGCA	ACTTCCTCCA	GTCCAGGCCT	GAGCCCACAG	CCCCTCCCGA
	TCCGGACCGT	TGAAGGAGGT	CAGGTCCGGA	CTCGGGTGTC	GGGGAGGGCT
2651	GGAGTCCTTC	AGGTTTGGGG	AGGAGAAGAC	CACCCCCAGC	CAGAAGCAGG
	CCTCAGGAAG	TCCAAACCCC	TCCTCTTCTG	GTGGGGGTCG	GTCTTCGTCC
2701	AGCCCATTGA	CAAGGAGCTG	TACCCCCTGG	CCTCCCTGAG	GTCCCTGTTT
	TCGGGTAACT	GTTCCTCGAC	ATGGGGGACC	GGAGGGACTC	CAGGGACAAA
2751 ·	GGCAACGACC	CCTCCTCCCA	GTAAAATAAA	GCCCGGGCAG	ATCTGCTGTG
	CCGTTGCTGG	GGAGGAGGGT	CATTTTATTT	CGGGCCCGTC	TAGACGACAC
2801	CCTTCTAGTT	GCCAGCCATC	TGTTGTTTGC	CCCTCCCCG	TGCCTTCCTT
	GGAAGATCAA	CGGTCGGTAG	ACAACAAACG	GGGAGGGGGC	ACGGAAGGAA
2851	GACCCTGGAA	GGTGCCACTC	CCACTGTCCT	TTCCTAATAA	AATGAGGAAA
	CTGGGACCTT	CCACGGTGAG	GGTGACAGGA	AAGGATTATT	TTACTCCTTT
2901	TTGCATCGCA	TTGTCTGAGT	AGGTGTCATT	CTATTCTGGG	GGGTGGGGTG
	AACGTAGCGT	AACAGACTCA	TCCACAGTAA	GATAAGACCC	CCCACCCCAC
2951	GGGCAGGACA CCCGTCCTGT	GCAAGGGGGA CGTTCCCCCT	GGATTGGGAA CCTAACCCTT	GACAATAGCA CTGTTATCGT	GGCATGCTGG
3001	GGATGCGGTG	GGCTCTATGG	CCGATCGGCG	CGCCGTACTG	AAATGTGTGG
	CCTACGCCAC	CCGAGATACC	GGCTAGCCGC	GCGGCATGAC	TTTACACACC
3051	GCGTGGCTTA	AGGGTGGGAA	AGAATATATA	AGGTGGGGGT	CTTATGTAGT
	CGCACCGAAT	TCCCACCCTT	TCTTATATAT	TCCACCCCA	GAATACATCA
3101	TTTGTATCTG AAACATAGAC	TTTTGCAGCA AAAACGTCGT	CGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG	CCATGAGCAC GGTACTCGTG	CAACTCGTTT GTTGAGCAAA
3151	GATGGAAGCA	TTGTGAGCTC	C ATATTTGACA	ACGCGCATGC	CCCCATGGGC
	CTACCTTCGT	AACACTCGAG	G TATAAACTGT	TGCGCGTACG	GGGGTACCCG
3201	CGGGGTGCGT	CAGAATGTGA	TGGGCTCCAG	CATTGATGGT	CGCCCCGTCC
	GCCCCACGCA	GTCTTACACT	ACCCGAGGTC	CGTAACTACCA	CGCGGGGCAGG
3251	TGCCCGCAAA	CTCTACTACO	TTGACCTACG	AGACCGTGTC	TGGAACGCCG
	ACGGGCGTTT	GAGATGATG	AACTGGATG	CTCTGGCACAC	ACCTTGCGGC
3301	TTGGAGACTG	CAGCCTCCGC	C CGCCGCTTCA	A GCCGCTGCA(CCACCGCCCG
	AACCTCTGAC	GTCGGAGGCC	G GCGGCGAAGT	F CGGCGACGT(CGTGGCGGGC

FIG.9A-4

3351	CGGGATTGTG	ACTGACTTTG	CTTTCCTGAG	CCCGCTTGCA	AACAGTGCAG
	GCCCTAACAC	TGACTGAAAC	GAAAGGACTC	GGGCGAACGT	TTGTCACGTC
3401	CTTCCCGTTC	ATCCGCCCGC	GATGACAAGT	TGACGGCTCT	TTTGGCACAA
	GAAGGGCAAG	TAGGCGGGCG	CTACTGTTCA	ACTGCCGAGA	AAACCGTGTT
3451	TTGGATTCTT	TGACCCGGGA	ACTTAATGTC	GTTTCTCAGC	AGCTGTTGGA
	AACCTAAGAA	ACTGGGCCCT	TGAATTACAG	CAAAGAGTCG	TCGACAACCT
3501	TCTGCGCCAG	CAGGTTTCTG	CCCTGAAGGC	TTCCTCCCCT	CCCAATGCGG
	AGACGCGGTC	GTCCAAAGAC	GGGACTTCCG	AAGGAGGGGA	GGGTTACGCC
3551	TTTAAAACAT	AAATAAAAA	CCAGACTCTG	TTTGGATTTG	GATCAAGCAA
	AAATTTTGTA	TTTATTTTT	GGTCTGAGAC	AAACCTAAAC	CTAGTTCGTT
3601	GTGTCTTGCT	GTCTTTATTT	AGGGGTTTTG	CGCGCGCGGT	AGGCCCGGGA
	CACAGAACGA	CAGAAATAAA	TCCCCAAAAC	GCGCGCGCCA	TCCGGGCCCT
3651	CCAGCGGTCT	CGGTCGTTGA	GGGTCCTGTG	TATTTTTCC	AGGACGTGGT
	GGTCGCCAGA	GCCAGCAACT	CCCAGGACAC	ATAAAAAAGG	TCCTGCACCA
3701	AAAGGTGACT	CTGGATGTTC	AGATACATGG	GCATAAGCCC	GTCTCTGGGG
	TTTCCACTGA	GACCTACAAG	TCTATGTACC	CGTATTCGGG	CAGAGACCCC
3751	TGGAGGTAGC	ACCACTGCAG	AGCTTCATGC	TGCGGGGTGG	TGTTGTAGAT
	ACCTCCATCG	TGGTGACGTC	TCGAAGTACG	ACGCCCCACC	ACAACATCTA
3801	GATCCAGTCG	TAGCAGGAGC	GCTGGGCGTG	GTGCCTAAAA	ATGTCTTTCA
	CTAGGTCAGC	ATCGTCCTCG	CGACCCGCAC	CACGGATTTT	TACAGAAAGT
3851	GTAGCAAGCT	GATTGCCAGG	GGCAGGCCCT	TGGTGTAAGT	GTTTACAAAG
	CATCGTTCGA	CTAACGGTCC	CCGTCCGGGA	ACCACATTCA	CAAATGTTTC
3901	CGGTTAAGCT	GGGATGGGTG	CATACGTGGG	GATATGAGAT	GCATCTTGGA
	GCCAATTCGA	CCCTACCCAC	GTATGCACCC	CTATACTCTA	CGTAGAACCT
3951	CTGTATTTT	AGGTTGGCTA	TGTTCCCAGO	CATATCCCTC	CGGGGATTCA
	GACATAAAAA	TCCAACCGAT	ACAAGGGTCG	GGTATAGGGAG	GCCCCTAAGT
4001	TGTTGTGCAG ACAACACGTC	AACCACCAGO TTGGTGGTC	C ACAGTGTATO C TGTCACATAG	C CGGTGCACTT G GCCACGTGAA	GGGAAATTTG
4051	TCATGTAGCT	TAGAAGGAAA	TGCGTGGAAG	G AACTTGGAGA	CGCCCTTGTG
	AGTACATCGA	ATCTTCCTT	ACGCACCTTG	C TTGAACCTCT	GCGGGAACAC
4101	ACCTCCAAGA TGGAGGTTCT	TTTTCCATGO AAAAGGTACO	ATTCGTCCAT	T AATGATGGCA A TTACTACCGT	ATGGGCCCAC TACCCGGGTG
4151	GGGCGGCGGCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	C CTGGGCGAA(G GACCCGCTT(ATATTTCTG TATAAAGAC	G GATCACTAA(C CTAGTGATT(G GTCATAGTTG G CAGTATCAAC

4201	TGTTCCAGGA TGAGATCGTC ATAGGCCATT TTTACAAAGC GCGGGCGGAG ACAAGGTCCT ACTCTAGCAG TATCCGGTAA AAATGTTTCG CGCCCGCCTC
4251	GGTGCCAGAC TGCGGTATAA TGGTTCCATC CGGCCCAGGG GCGTAGTTAC CCACGGTCTG ACGCCATATT ACCAAGGTAG GCCGGGTCCC CGCATCAATG
4301	CCTCACAGAT TTGCATTTCC CACGCTTTGA GTTCAGATGG GGGGATCATG GGAGTGTCTA AACGTAAAGG GTGCGAAACT CAAGTCTACC CCCCTAGTAC
4351	TCTACCTGCG GGGCGATGAA GAAAACGGTT TCCGGGGTAG GGGAGATCAG AGATGGACGC CCCGCTACTT CTTTTGCCAA AGGCCCCATC CCCTCTAGTC
4401	CTGGGAAGAA AGCAGGTTCC TGAGCAGCTG CGACTTACCG CAGCCGGTGG GACCCTTCTT TCGTCCAAGG ACTCGTCGAC GCTGAATGGC GTCGGCCACC
4451	GCCCGTAAAT CACACCTATT ACCGGCTGCA ACTGGTAGTT AAGAGAGCTG CGGGCATTTA GTGTGGATAA TGGCCGACGT TGACCATCAA TTCTCTCGAC
4501	CAGCTGCCGT CATCCCTGAG CAGGGGGGCC ACTTCGTTAA GCATGTCCCT GTCGACGGCA GTAGGGACTC GTCCCCCGG TGAAGCAATT CGTACAGGGA
4551	GACTCGCATG TTTTCCCTGA CCAAATCCGC CAGAAGGCGC TCGCCGCCCA CTGAGCGTAC AAAAGGGACT GGTTTAGGCG GTCTTCCGCG AGCGGCGGGT
4601	GCGATAGCAG TTCTTGCAAG GAAGCAAAGT TTTTCAACGG TTTGAGACCG CGCTATCGTC AAGAACGTTC CTTCGTTTCA AAAAGTTGCC AAACTCTGGC
4651	TCCGCCGTAG GCATGCTTTT GAGCGTTTGA CCAAGCAGTT CCAGGCGGTC AGGCGGCATC CGTACGAAAA CTCGCAAACT GGTTCGTCAA GGTCCGCCAG
4701	CCACAGCTCG GTCACCTGCT CTACGGCATC TCGATCCAGC ATATCTCCTC GGTGTCGAGC CAGTGGACGA GATGCCGTAG AGCTAGGTCG TATAGAGGAG
4751	GTTTCGCGGG TTGGGGCGGC TTTCGCTGTA CGGCAGTAGT CGGTGCTCGT CAAAGCGCCC AACCCCGCCG AAAGCGACAT GCCGTCATCA GCCACGAGCA
4801	CCAGACGGGC CAGGGTCATG TCTTTCCACG GGCGCAGGGT CCTCGTCAGC GGTCTGCCCG GTCCCAGTAC AGAAAGGTGC CCGCGTCCCA GGAGCAGTCG
4851	GTAGTCTGGG TCACGGTGAA GGGGTGCGCT CCGGGCTGCG CGCTGGCCAG CATCAGACCC AGTGCCACTT CCCCACGCGA GGCCCGACGC GCGACCGGTC
4901	GGTGCGCTTG AGGCTGGTCC TGCTGGTGCT GAAGCGCTGC CGGTCTTCGCCCACGCGAAC TCCGACCAGG ACGACCACGA CTTCGCGACG GCCAGAAGCG
4951	CCTGCGCGTC GGCCAGGTAG CATTTGACCA TGGTGTCATA GTCCAGCCCC GGACGCGCAG CCGGTCCATC GTAAACTGGT ACCACAGTAT CAGGTCGGGG
5001	TCCGCGGCGT GGCCCTTGGC GCGCAGCTTG CCCTTGGAGG AGGCGCCGCAAGGCGCCGCA CCGGGAACCG CGCGTCGAAC GGGAACCTCC TCCGCGGCGT

5051	CGAGGGGCAG	TGCAGACTTT	TGAGGGCGTA	GAGCTTGGGC	GCGAGAAATA
	GCTCCCCGTC	ACGTCTGAAA	ACTCCCGCAT	CTCGAACCCG	CGCTCTTTAT
5101	CCGATTCCGG	GGAGTAGGCA	TCCGCGCCGC	AGGCCCCGCA	GACGGTCTCG
	GGCTAAGGCC	CCTCATCCGT	AGGCGCGGCG	TCCGGGGCGT	CTGCCAGAGC
5151	CATTCCACGA	GCCAGGTGAG	CTCTGGCCGT	TCGGGGTCAA	AAACCAGGTT
	GTAAGGTGCT	CGGTCCACTC	GAGACCGGCA	AGCCCCAGTT	TTTGGTCCAA
5201	TCCCCCATGC	TTTTTGATGC	GTTTCTTACC	TCTGGTTTCC	ATGAGCCGGT
	AGGGGGTACG	AAAAACTACG	CAAAGAATGG	AGACCAAAGG	TACTCGGCCA
5251	GTCCACGCTC	GGTGACGAAA	AGGCTGTCCG	TGTCCCCGTA	TACAGACTTG
	CAGGTGCGAG	CCACTGCTTT	TCCGACAGGC	ACAGGGGCAT	ATGTCTGAAC
5301	AGAGGCCTGT	CCTCGAGCGG	TGTTCCGCGG	TCCTCCTCGT	ATAGAAACTC
	TCTCCGGACA	GGAGCTCGCC	ACAAGGCGCC	AGGAGGAGCA	TATCTTTGAG
5351	GGACCACTCT	GAGACAAAGG	CTCGCGTCCA	GGCCAGCACG	AAGGAGGCTA
	CCTGGTGAGA	CTCTGTTTCC	GAGCGCAGGT	CCGGTCGTGC	TTCCTCCGAT
5401	AGTGGGAGGG	GTAGCGGTCG	TTGTCCACTA	GGGGGTCCAC	TCGCTCCAGG
	TCACCCTCCC	CATCGCCAGC	AACAGGTGAT	CCCCCAGGTG	AGCGAGGTCC
5451	GTGTGAAGAC	C ACATGTCGCC	CTCTTCGGCA	TCAAGGAAGG	TGATTGGTTT
	CACACTTCTC	G TGTACAGCGG	GAGAAGCCGT	AGTTCCTTCC	ACTAACCAAA
5501	GTAGGTGTAG	G GCCACGTGAC	CGGGTGTTCC	TGAAGGGGGG	CTATAAAAGG
	CATCCACATG	C CGGTGCACTG	GGCCCACAAG	ACTTCCCCCC	GATATTTTCC
5551	GGGTGGGGG	C GCGTTCGTCC	TCACTCTCTC	r ccgcatcgct	GTCTGCGAGG
	CCCACCCCC	G CGCAAGCAG	G AGTGAGAGAA	A ggcgtagcga	CAGACGCTCC
5601	GCCAGCTGT	T GGGGTGAGTA	A CTCCCTCTG/	A AAAGCGGGCA	TGACTTCTGC
	CGGTCGACA	A CCCCACTCA	C GAGGGAGAC	T TTTCGCCCGT	ACTGAAGACG
5651	GCTAAGATT(G TCAGTTTCCA	A AAAACGAGG/	A GGATTTGATA	TTCACCTGGC
	CGATTCTAA	C AGTCAAAGG	F TTTTGCTCC	T CCTAAACTAT	AAGTGGACCG
5701	CCGCGGTGA GGCGCCACT	T GCCTTTGAG(A CGGAAACTC	G GTGGCCGCAT	T CCATCTGGTO A GGTAGACCAO	AGAAAAGACA TCTTTTCTGT
5751	ATCTTTTTG	T TGTCAAGCT	T GGTGGCAAA	C GACCCGTAGA	GGGCGTTGGA
	TAGAAAAAC	A ACAGTTCGA	A CCACCGTTT	G CTGGGCATC	CCCGCAACCT
5801	GTCGTTGAA	C CGCTACCTC	G CGTCCCAAA	C CAAAAACAG	G CGATCGGCGC C GCTAGCCGCG
5851	GCTCCTTGG CGAGGAACC	GC CGCGATGTT CG GCGCTACAA	T AGCTGCACG A TCGACGTGC	T ATTCGCGCGCGCA TAAGCGCGCGC	C AACGCACCGC G TTGCGTGGCG

FIG.9A-7

5901	CATTCGGGAA	AGACGGTGGT	GCGCTCGTCG	GGCACCAGGT	GCACGCGCCA
	GTAAGCCCTT	TCTGCCACCA	CGCGAGCAGC	CCGTGGTCCA	CGTGCGCGGT
5951	ACCGCGGTTG	TGCAGGGTGA	CAAGGTCAAC	GCTGGTGGCT	ACCTCTCCGC
	TGGCGCCAAC	ACGTCCCACT	GTTCCAGTTG	CGACCACCGA	TGGAGAGGCG
6001	GTAGGCGCTC	GTTGGTCCAG	CAGAGGCGGC	CGCCCTTGCG	CGAGCAGAAT
	CATCCGCGAG	CAACCAGGTC	GTCTCCGCCG	GCGGGAACGC	GCTCGTCTTA
6051	GGCGGTAGGG	GGTCTAGCTG	CGTCTCGTCC	GGGGGGTCTG	CGTCCACGGT
	CCGCCATCCC	CCAGATCGAC	GCAGAGCAGG	CCCCCCAGAC	GCAGGTGCCA
6101	AAAGACCCCG	GGCAGCAGGC	GCGCGTCGAA	GTAGTCTATC	TTGCATCCTT
	TTTCTGGGGC	CCGTCGTCCG	CGCGCAGCTT	CATCAGATAG	AACGTAGGAA
6151	GCAAGTCTAG	CGCCTGCTGC	CATGCGCGGG	CGGCAAGCGC	GCGCTCGTAT
	CGTTCAGATC	GCGGACGACG	GTACGCGCCC	GCCGTTCGCG	CGCGAGCATA
6201	GGGTTGAGTG	GGGGACCCCA	TGGCATGGGG	TGGGTGAGCG	CGGAGGCGTA
	CCCAACTCAC	CCCCTGGGGT	ACCGTACCCC	ACCCACTCGC	GCCTCCGCAT
6251	CATGCCGCAA	ATGTCGTAAA	CGTAGAGGGG	CTCTCTGAGT	ATTCCAAGAT
	GTACGGCGTT	TACAGCATTT	GCATCTCCCC	GAGAGACTCA	TAAGGTTCTA
6301	ATGTAGGGTA	GCATCTTCCA	CCGCGGATGC	TGGCGCGCAC	GTAATCGTAT
	TACATCCCAT	CGTAGAAGGT	GGCGCCTACG	ACCGCGCGTG	CATTAGCATA
6351	AGTTCGTGCG	AGGGAGCGAG	GAGGTCGGGA	CCGAGGTTGC	TACGGGCGGG
	TCAAGCACGC	TCCCTCGCTC	CTCCAGCCCT	GGCTCCAACG	ATGCCCGCCC
6401	CTGCTCTGCT	CGGAAGACTA	TCTGCCTGAA	GATGGCATGT	GAGTTGGATG
	GACGAGACGA	GCCTTCTGAT	AGACGGACTT	CTACCGTACA	CTCAACCTAC
6451		ACGCTGGAAG TGCGACCTTC			
6501	GCGTCACGCA	CGAAGGAGGC	GTAGGAGTCG	CGCAGCTTGT	TGACCAGCTC
	CGCAGTGCGT	GCTTCCTCCG	CATCCTCAGC	GCGTCGAACA	ACTGGTCGAG
6551	GGCGGTGACC	TGCACGTCTA	GGGCGCAGTA	GTCCAGGGTT	TCCTTGATGA
	CCGCCACTGG	ACGTGCAGAT	CCCGCGTCAT	CAGGTCCCAA	AGGAACTACT
6601	TGTCATACTT	ATCCTGTCCC	TTTTTTTCC	ACAGCTCGCG	GTTGAGGACA
	ACAGTATGAA	TAGGACAGGG	AAAAAAAAAGG	TGTCGAGCGC	CAACTCCTGT
6651	AACTCTTCGC	GGTCTTTCCA	GTACTCTTGG	ATCGGAAACC	CGTCGGCCTC
	TTGAGAAGCG	CCAGAAAGGT	CATGAGAACC	TAGCCTTTGG	GCAGCCGGAG
6701	CGAACGGTAA	GAGCCTAGCA	TGTAGAACTG	GTTGACGGCC	TGGTAGGCGC
	GCTTGCCATT	CTCGGATCGT	ACATCTTGAC	CAACTGCCGG	ACCATCCGCG

6751	AGCATCCCTT	TTCTACGGGT	AGCGCGTATG	CCTGCGCGGC	CTTCCGGAGC
	TCGTAGGGAA	AAGATGCCCA	TCGCGCATAC	GGACGCGCCG	GAAGGCCTCG
6801	GAGGTGTGGG	TGAGCGCAAA	GGTGTCCCTG	ACCATGACTT	TGAGGTACTG
	CTCCACACCC	ACTCGCGTTT	CCACAGGGAC	TGGTACTGAA	ACTCCATGAC
6851	GTATTTGAAG	TCAGTGTCGT	CGCATCCGCC	CTGCTCCCAG	AGCAAAAAGT
	CATAAACTTC	AGTCACAGCA	GCGTAGGCGG	GACGAGGGTC	TCGTTTTTCA
6901	CCGTGCGCTT	TTTGGAACGC	GGATTTGGCA	GGGCGAAGGT	GACATCGTTG
	GGCACGCGAA	AAACCTTGCG	CCTAAACCGT	CCCGCTTCCA	CTGTAGCAAC
6951	AAGAGTATCT	TTCCCGCGCG	AGGCATAAAG	TTGCGTGTGA	TGCGGAAGGG
	TTCTCATAGA	AAGGGCGCGC	TCCGTATTTC	AACGCACACT	ACGCCTTCCC
7001	TCCCGGCACC	TCGGAACGGT	TGTTAATTAC	CTGGGCGGCG	AGCACGATCT
	AGGGCCGTGG	AGCCTTGCCA	ACAATTAATG	GACCCGCCGC	TCGTGCTAGA
7051	CGTCAAAGCC	GTTGATGTTG	TGGCCCACAA	TGTAAAGTTC	CAAGAAGCGC
	GCAGTTTCGG	CAACTACAAC	ACCGGGTGTT	ACATTTCAAG	GTTCTTCGCG
7101	GGGATGCCCT	TGATGGAAGG	CAATTTTTTA	AGTTCCTCGT	AGGTGAGCTC
	CCCTACGGGA	ACTACCTTCC	GTTAAAAAAAT	TCAAGGAGCA	TCCACTCGAG
7151	TTCAGGGGAG	CTGAGCCCGT	GCTCTGAAAG	GGCCCAGTCT	GCAAGATGAG
	AAGTCCCCTC	GACTCGGGCA	CGAGACTTTC	CCGGGTCAGA	CGTTCTACTC
7201	GGTTGGAAGC	GACGAATGAG	CTCCACAGGT	CACGGGCCAT	TAGCATTTGC
	CCAACCTTCG	CTGCTTACTC	GAGGTGTCCA	GTGCCCGGTA	ATCGTAAACG
7251	AGGTGGTCGC TCCACCAGCG	GAAAGGTCCT CTTTCCAGGA	AAACTGGCGA TTTGACCGCT	CCTATGGCCA GGATACCGGT	TTTTTTCTGG
7301	GGTGATGCAG	TAGAAGGTAA	GCGGGTCTTG	TTCCCAGCGG	TCCCATCCAA
	CCACTACGTC	ATCTTCCATT	CGCCCAGAAC	AAGGGTCGCC	AGGGTAGGTT
7351	GGTTCGCGGC	TAGGTCTCGC	GCGGCAGTCA	CTAGAGGCTC	ATCTCCGCCG
	CCAAGCGCCG	ATCCAGAGCG	GCCCGTCAGT	GATCTCCGAG	TAGAGGCGGC
7401	AACTTCATGA	CCAGCATGAA	GGGCACGAGC	TGCTTCCCAA	AGGCCCCCAT
	TTGAAGTACT	GGTCGTACTT	CCCGTGCTCG	ACGAAGGGTT	TCCGGGGGTA
7451	CCAAGTATAG	GTCTCTACAT	CGTAGGTGAC	AAAGAGACGO	TCGGTGCGAG
	GGTTCATATC	CAGAGATGTA	GCATCCACTG	TTTCTCTGCG	AGCCACGCTC
7501	GATGCGAGCC CTACGCTCGG	GATCGGGAAG CTAGCCCTTC	AACTGGATCT	CCCGCCACCA GGGCGGTGGT	ATTGGAGGAG TAACCTCCTC
7551	TGGCTATTGA	TGTGGTGAAA	A GTAGAAGTCO	CTGCGACGGG	CCGAACACTC
	ACCGATAACT	ACACCACTTT	CATCTTCAGO	GACGCTGCC	GGCTTGTGAG

7601	GTGCTGGCTT CACGACCGAA	TTGTAAAAAC AACATTTTTG	GTGCGCAGTA CACGCGTCAT	CTGGCAGCGG GACCGTCGCC	TGCACGGGCT ACGTGCCCGA
7651	GTACATCCTG	CACGAGGTTG	ACCTGACGAC	CGCGCACAAG	GAAGCAGAGT
	CATGTAGGAC	GTGCTCCAAC	TGGACTGCTG	GCGCGTGTTC	CTTCGTCTCA
7701	GGGAATTTGA	GCCCCTCGCC	TGGCGGGTTT	GGCTGGTGGT	CTTCTACTTC
	CCCTTAAACT	CGGGGAGCGG	ACCGCCCAAA	CCGACCACCA	GAAGATGAAG
7751	GGCTGCTTGT	CCTTGACCGT	CTGGCTGCTC	GAGGGGAGTT	ACGGTGGATC
	CCGACGAACA	GGAACTGGCA	GACCGACGAG	CTCCCCTCAA	TGCCACCTAG
7801	GGACCACCAC	GCCGCGCGAG	CCCAAAGTCC	AGATGTCCGC	GCGCGGCGGT
	CCTGGTGGTG	CGGCGCGCTC	GGGTTTCAGG	TCTACAGGCG	CGCGCCGCCA
7851	CGGAGCTTGA	TGACAACATC	GCGCAGATGG	GAGCTGTCCA	TGGTCTGGAG
	GCCTCGAACT	ACTGTTGTAG	CGCGTCTACC	CTCGACAGGT	ACCAGACCTC
7901	CTCCCGCGGC	GTCAGGTCAG	GCGGGAGCTC	CTGCAGGTTT	ACCTCGCATA
	GAGGGCGCCG	CAGTCCAGTC	CGCCCTCGAG	GACGTCCAAA	TGGAGCGTAT
7951	GACGGGTCAG	GGCGCGGGCT	AGATCCAGGT	GATACCTAAT	TTCCAGGGGC
	CTGCCCAGTC	CCGCGCCCGA	TCTAGGTCCA	CTATGGATTA	AAGGTCCCCG
8001	TGGTTGGTGG	CGGCGTCGAT	GGCTTGCAAG	AGGCCGCATC	CCCGCGGCGC
	ACCAACCACC	GCCGCAGCTA	CCGAACGTTC	TCCGGCGTAG	GGGCGCCGCG
8051	GACTACGGTA	CCGCGCGGCG	GGCGGTGGGC	CGCGGGGGTG	TCCTTGGATG
	CTGATGCCAT	GGCGCGCCGC	CCGCCACCC	GCGCCCCCAC	AGGAACCTAC
8101	ATGCATCTAA	AAGCGGTGAC	GCGGGCGAGC	CCCCGGAGGT	AGGGGGGGCT
	TACGTAGATT	TTCGCCACTG	CGCCCGCTCG	GGGGCCTCCA	TCCCCCCCGA
8151	CCGGACCCGC	CGGGAGAGGG	GGCAGGGGCA	CGTCGGCGCC	GCGCGCGGGC
	GGCCTGGGCG	GCCCTCTCCC	CCGTCCCCGT	GCAGCCGCGG	CGCGCGCCCG
8201	AGGAGCTGGT TCCTCGACCA	GCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC	TAGGTTGCTG ATCCAACGAC	G GCGAACGCGA C CGCTTGCGCT	CGACGCGGCG GCTGCGCCGC
8251	GTTGATCTCC	TGAATCTGGC	GCCTCTGCGT	T GAAGACGACG	GGCCCGGTGA
	CAACTAGAGG	ACTTAGACCG	GCGGAGACGCA	A CTTCTGCTGC	CCGGGCCACT
8301	GCTTGAACCT CGAACTTGGA	GAAAGAGAGT CTTTCTCTCA	TCGACAGAATA AGCTGTCTT	T CAATTTCGGT A GTTAAAGCCA	GTCGTTGACG CAGCAACTGC
8351	GCGGCCTGGC	GCAAAATCTO	CTGCACGTC	T CCTGAGTTGT	CTTGATAGGC
	CGCCGGACCG	CGTTTTAGAO	GACGTGCAG	A GGACTCAACA	A GAACTATCCG
8401	GATCTCGGCC	ATGAACTGC	T CGATCTCTT	C CTCCTGGAGA	TCTCCGCGTC
	CTAGAGCCGG	TACTTGACG/	A GCTAGAGAA	G GAGGACCTCT	AGAGGCGCAG

8451	CGGCTCGCTC	CACGGTGGCG	GCGAGGTCGT	TGGAAATGCG	GGCCATGAGC
	GCCGAGCGAG	GTGCCACCGC	CGCTCCAGCA	ACCTTTACGC	CCGGTACTCG
8501	TGCGAGAAGG	CGTTGAGGCC	TCCCTCGTTC	CAGACGCGGC	TGTAGACCAC
	ACGCTCTTCC	GCAACTCCGG	AGGGAGCAAG	GTCTGCGCCG	ACATCTGGTG
8551	GCCCCCTTCG	GCATCGCGGG	CGCGCATGAC	CACCTGCGCG	AGATTGAGCT
	CGGGGGAAGC	CGTAGCGCCC	GCGCGTACTG	GTGGACGCGC	TCTAACTCGA
8601	CCACGTGCCG	GGCGAAGACG	GCGTAGTTTC	GCAGGCGCTG	AAAGAGGTAG
	GGTGCACGGC	CCGCTTCTGC	CGCATCAAAG	CGTCCGCGAC	TTTCTCCATC
8651	TTGAGGGTGG	TGGCGGTGTG	TTCTGCCACG	AAGAAGTACA	TAACCCAGCG
	AACTCCCACC	ACCGCCACAC	AAGACGGTGC	TTCTTCATGT	ATTGGGTCGC
8701	TCGCAACGTG	GATTCGTTGA	TATCCCCCAA	GGCCTCAAGG	CGCTCCATGG
	AGCGTTGCAC	CTAAGCAACT	ATAGGGGGTT	CCGGAGTTCC	GCGAGGTACC
8751	CCTCGTAGAA	GTCCACGGCG	AAGTTGAAAA	ACTGGGAGTT	GCGCGCCGAC
	GGAGCATCTT	CAGGTGCCGC	TTCAACTTTT	TGACCCTCAA	CGCGCGGCTG
8801	ACGGTTAACT	CCTCCTCCAG	AAGACGGATG	AGCTCGGCGA	CAGTGTCGCG
	TGCCAATTGA	GGAGGAGGTC	TTCTGCCTAC	TCGAGCCGCT	GTCACAGCGC
8851	CACCTCGCGC	TCAAAGGCTA	CAGGGGCCTC	TTCTTCTTCT	TCAATCTCCT
	GTGGAGCGCG	AGTTTCCGAT	GTCCCCGGAG	AAGAAGAAGA	AGTTAGAGGA
8901	CTTCCATAAG	GGCCTCCCCT	TCTTCTTCTT	CTGGCGGCGG	TGGGGGAGGG
	GAAGGTATTC	CCGGAGGGGA	A AGAAGAAGAA	GACCGCCGCC	ACCCCCTCCC
8951	GGGACACGGC	GGCGACGACG	GCGCACCGGG	AGGCGGTCGA	CAAAGCGCTC
	CCCTGTGCCG	CCGCTGCTGC	CGCGTGGCCC	TCCGCCAGCT	GTTTCGCGAG
9001	GATCATCTCC	CCGCGGCGAC	GGCGCATGGT	CTCGGTGACG	GCGCGGCCGT
	CTAGTAGAGG	GGCGCCGCTG	CCGCGTACCA	GAGCCACTGC	CGCGCCGGCA
9051	TCTCGCGGGG	GCGCAGTTGC	AAGACGCCGC	CCGTCATGTC	CCGGTTATGG
	AGAGCGCCCC	CGCGTCAACC	TTCTGCGGCG	GGCAGTACAG	GGCCAATACC
9101	GTTGGCGGGG CAACCGCCCC	GGCTGCCATO CCGACGGTAO	G CGGCAGGGAT C GCCGTCCCTA	ACGGCGCTAA TGCCGCGATT	CGATGCATCT GCTACGTAGA
9151	CAACAATTGT	TGTGTAGGTA	A CTCCGCCGCC	GAGGGACCTO	AGCGAGTCCG
	GTTGTTAACA	ACACATCCA	T GAGGCGGCGC	CTCCCTGGAO	C TCGCTCAGGC
9201	CATCGACCGG	ATCGGAAAA(C CTCTCGAGA/	A AGGCGTCTA/	A CCAGTCACAG
	GTAGCTGGCC	TAGCCTTTT	G GAGAGCTCT	F TCCGCAGAT	T GGTCAGTGTC
9251	TCGCAAGGTA AGCGTTCCAT	GGCTGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC	C CGTGGCGGG(G GCACCGCCC	GGCAGCGGG GCCGTCGCCC	C GGCGGTCGGG G CCGCCAGCCC

9301	GTTGTTTCTG	GCGGAGGTGC	TGCTGATGAT	GTAATTAAAG	TAGGCGGTCT
	CAACAAAGAC	CGCCTCCACG	ACGACTACTA	CATTAATTTC	ATCCGCCAGA
9351	TGAGACGGCG	GATGGTCGAC	AGAAGCACCA	TGTCCTTGGG	TCCGGCCTGC
	ACTCTGCCGC	CTACCAGCTG	TCTTCGTGGT	ACAGGAACCC	AGGCCGGACG
9401	TGAATGCGCA	GGCGGTCGGC	CATGCCCCAG	GCTTCGTTTT	GACATCGGCG
	ACTTACGCGT	CCGCCAGCCG	GTACGGGGTC	CGAAGCAAAA	CTGTAGCCGC
9451	CAGGTCTTTG	TAGTAGTCTT	GCATGAGCCT	TTCTACCGGC	ACTTCTTCTT
	GTCCAGAAAC	ATCATCAGAA	CGTACTCGGA	AAGATGGCCG	TGAAGAAGAA
9501	CTCCTTCCTC GAGGAAGGAG	TTGTCCTGCA AACAGGACGT	TCTCTTGCAT AGAGAACGTA	CTATCGCTGC GATAGCGACG	GGCGGCGGCG
9551	GAGTTTGGCC	GTAGGTGGCG	CCCTCTTCCT	CCCATGCGTG	TGACCCCGAA
	CTCAAACCGG	CATCCACCGC	GGGAGAAGGA	GGGTACGCAC	ACTGGGGCTT
9601	GCCCCTCATC	GGCTGAAGCA	GGGCTAGGTC	GGCGACAACG	CGCTCGGCTA
	CGGGGAGTAG	CCGACTTCGT	CCCGATCCAG	CCGCTGTTGC	GCGAGCCGAT
9651	ATATGGCCTG	CTGCACCTGC	GTGAGGGTAG	ACTGGAAGTC	ATCCATGTCC
	TATACCGGAC	GACGTGGACG	CACTCCCATC	TGACCTTCAG	TAGGTACAGG
9701	ACAAAGCGGT	GGTATGCGCC	CGTGTTGATG	GTGTAAGTGC	AGTTGGCCAT
	TGTTTCGCCA	CCATACGCGG	GCACAACTAC	CACATTCACG	TCAACCGGTA
9751	AACGGACCAG	TTAACGGTCT	GGTGACCCGG	CTGCGAGAGC	TCGGTGTACC
	TTGCCTGGTC	AATTGCCAGA	CCACTGGGCC	GACGCTCTCG	AGCCACATGG
9801	TGAGACGCGA	GTAAGCCCTC	GAGTCAAATA	CGTAGTCGTT	GCAAGTCCGC
	ACTCTGCGCT	CATTCGGGAG	CTCAGTTTAT	GCATCAGCAA	CGTTCAGGCG
9851	ACCAGGTACT	GGTATCCCAC	CAAAAAGTGC	GGCGGCGGCT	GGCGGTAGAG
	TGGTCCATGA	CCATAGGGTG	GTTTTTCACG	CCGCCGCCGA	CCGCCATCTC
9901	GGGCCAGCGT	AGGGTGGCCG	GGGCTCCGGG	G GGCGAGATCT	TCCAACATAA
	CCCGGTCGCA	TCCCACCGGC	CCCGAGGCCC	CCGCTCTAGA	AGGTTGTATT
9951	GGCGATGATA CCGCTACTAT	TCCGTAGATG AGGCATCTAG	TACCTGGACA ATGGACCTGT	A TCCAGGTGAT AGGTCCACTA	GCCGGCGGCG
10001	GTGGTGGAGG CACCACCTCC	G CGCGCGGAAA	A GTCGCGGACG CAGCGCCTGG	G CGGTTCCAGA C GCCAAGGTCT	TGTTGCGCAG ACAACGCGTC
10051	CGGCAAAAA	TGCTCCATGG	TCGGGACGCT	CTGGCCGGT(AGGCGCGCGC
	GCCGTTTTT	ACGAGGTACG	AGCCCTGCGA	A GACCGGCCA(TCCGCGCGCGCG
10101	AATCGTTGA(GCTCTAGACO	G GTGCAAAAGG	AGAGCCTGTA	A AGCGGGCACT
	TTAGCAACT(GCGAGATCTGO	G CACGTTTTC	C TCTCGGACA	T TCGCCCGTGA

10151	CTTCCGTGGT CTGGTGGATA AATTCGCAAG GGTATCATGG CGGACGACCG GAAGGCACCA GACCACCTAT TTAAGCGTTC CCATAGTACC GCCTGCTGGC
10201	GGGTTCGAGC CCCGTATCCG GCCGTCCGCC GTGATCCATG CGGTTACCGC CCCAAGCTCG GGGCATAGGC CGGCAGGCGG CACTAGGTAC GCCAATGGCG
10251	CCGCGTGTCG AACCCAGGTG TGCGACGTCA GACAACGGGG GAGTGCTCCT GGCGCACAGC TTGGGTCCAC ACGCTGCAGT CTGTTGCCCC CTCACGAGGA
10301	TTTGGCTTCC TTCCAGGCGC GGCGGCTGCT GCGCTAGCTT TTTTGGCCAC AAACCGAAGG AAGGTCCGCG CCGCCGACGA CGCGATCGAA AAAACCGGTG
10351	TGGCCGCGCG CAGCGTAAGC GGTTAGGCTG GAAAGCGAAA GCATTAAGTG ACCGGCGCGC GTCGCATTCG CCAATCCGAC CTTTCGCTTT CGTAATTCAC
10401	GCTCGCTCCC TGTAGCCGGA GGGTTATTTT CCAAGGGTTG AGTCGCGGGA CGAGCGAGGG ACATCGGCCT CCCAATAAAA GGTTCCCAAC TCAGCGCCCT
10451	CCCCCGGTTC GAGTCTCGGA CCGGCCGGAC TGCGGCGAAC GGGGGTTTGC GGGGGCCAAG CTCAGAGCCT GGCCGGCCTG ACGCCGCTTG CCCCCAAACG
10501	CTCCCCGTCA TGCAAGACCC CGCTTGCAAA TTCCTCCGGA AACAGGGACG GAGGGGCAGT ACGTTCTGGG GCGAACGTTT AAGGAGGCCT TTGTCCCTGC
10551	AGCCCCTTTT TTGCTTTTCC CAGATGCATC CGGTGCTGCG GCAGATGCGC TCGGGGAAAA AACGAAAAGG GTCTACGTAG GCCACGACGC CGTCTACGCG
10601	CCCCCTCCTC AGCAGCGGCA AGAGCAAGAG CAGCGGCAGA CATGCAGGGC GGGGGAGGAG TCGTCGCCGT TCTCGTTCTC GTCGCCGTCT GTACGTCCCG
10651	ACCCTCCCCT CCTCCTACCG CGTCAGGAGG GGCGACATCC GCGGTTGACG TGGGAGGGA GGAGGATGGC GCAGTCCTCC CCGCTGTAGG CGCCAACTGC
10701	CGGCAGCAGA TGGTGATTAC GAACCCCCGC GGCGCCGGGC CCGGCACTAC GCCGTCGTCT ACCACTAATG CTTGGGGGCG CCGCGGCCCG GGCCGTGATG
10751	CTGGACTTGG AGGAGGGCGA GGGCCTGGCG CGGCTAGGAG CGCCCTCTCC GACCTGAACC TCCTCCCGCT CCCGGACCGC GCCGATCCTC GCGGGAGAGG
10801	TGAGCGGCAC CCAAGGGTGC AGCTGAAGCG TGATACGCGT GAGGCGTACG ACTCGCCGTG GGTTCCCACG TCGACTTCGC ACTATGCGCA CTCCGCATGC
10851	TGCCGCGGCA GAACCTGTTT CGCGACCGCG AGGGAGAGGA GCCCGAGGAGAGAGCGCCGT CTTGGACAAA GCGCTGGCGC TCCCTCTCCT CGGGCTCCTC
10901	ATGCGGGATC GAAAGTTCCA CGCAGGGCGC GAGCTGCGGC ATGGCCTGAATACGCCCTAG CTTTCAAGGT GCGTCCCGCG CTCGACGCCG TACCGGACTT
10951	TCGCGAGCGG TTGCTGCGCG AGGAGGACTT TGAGCCCGAC GCGCGAACCGAGCGCTCGCC AACGACGCGC TCCTCCTGAA ACTCGGGCTG CGCGCTTGGC

11001	GGATTAGTCC CGCGCGCGCA CACGTGGCGG CCGCCGACCT GGTAACCGCA CCTAATCAGG GCGCGCGCT GTGCACCGCC GGCGGCTGGA CCATTGGCGT
11051	TACGAGCAGA CGGTGAACCA GGAGATTAAC TTTCAAAAAA GCTTTAACAA ATGCTCGTCT GCCACTTGGT CCTCTAATTG AAAGTTTTTT CGAAATTGTT
11101	CCACGTGCGT ACGCTTGTGG CGCGCGAGGA GGTGGCTATA GGACTGATGC GGTGCACGCA TGCGAACACC GCGCGCTCCT CCACCGATAT CCTGACTACG
11151	ATCTGTGGGA CTTTGTAAGC GCGCTGGAGC AAAACCCAAA TAGCAAGCCG TAGACACCCT GAAACATTCG CGCGACCTCG TTTTGGGTTT ATCGTTCGGC
11201	CTCATGGCGC AGCTGTTCCT TATAGTGCAG CACAGCAGGG ACAACGAGGC GAGTACCGCG TCGACAAGGA ATATCACGTC GTGTCGTCCC TGTTGCTCCG
11251	ATTCAGGGAT GCGCTGCTAA ACATAGTAGA GCCCGAGGGC CGCTGGCTGC TAAGTCCCTA CGCGACGATT TGTATCATCT CGGGCTCCCG GCGACCGACG
11301	TCGATTTGAT AAACATCCTG CAGAGCATAG TGGTGCAGGA GCGCAGCTTG AGCTAAACTA TTTGTAGGAC GTCTCGTATC ACCACGTCCT CGCGTCGAAC
11351	AGCCTGGCTG ACAAGGTGGC CGCCATCAAC TATTCCATGC TTAGCCTGGG TCGGACCGAC TGTTCCACCG GCGGTAGTTG ATAAGGTACG AATCGGACCC
11401	CAAGTTTTAC GCCCGCAAGA TATACCATAC CCCTTACGTT CCCATAGACA GTTCAAAATG CGGGCGTTCT ATATGGTATG GGGAATGCAA GGGTATCTGT
11451	AGGAGGTAAA GATCGAGGGG TTCTACATGC GCATGGCGCT GAAGGTGCTT TCCTCCATTT CTAGCTCCCC AAGATGTACG CGTACCGCGA CTTCCACGAA
11501	ACCTTGAGCG ACGACCTGGG CGTTTATCGC AACGAGCGCA TCCACAAGGC TGGAACTCGC TGCTGGACCC GCAAATAGCG TTGCTCGCGT AGGTGTTCCG
11551	CGTGAGCGTG AGCCGGCGGC GCGAGCTCAG CGACCGCGAG CTGATGCACA GCACTCGCAC TCGGCCGCCG CGCTCGAGTC GCTGGCGCTC GACTACGTGT
11601	GCCTGCAAAG GGCCCTGGCT GGCACGGGCA GCGGCGATAG AGAGGCCGAG CGGACGTTTC CCGGGACCGA CCGTGCCCGT CGCCGCTATC TCTCCGGCTC
11651	TCCTACTTTG ACGCGGGCGC TGACCTGCGC TGGGCCCCAA GCCGACGCGC AGGATGAAAC TGCGCCCGCG ACTGGACGCG ACCCGGGGTT CGGCTGCGCG
11701	CCTGGAGGCA GCTGGGGCCG GACCTGGGCT GGCGGTGGCA CCCGCGCGCG GGACCTCCGT CGACCCCGGC CTGGACCCGA CCGCCACCGT GGGCGCGCGC
11751	CTGGCAACGT CGGCGGCGTG GAGGAATATG ACGAGGACGA TGAGTACGAG GACCGTTGCA GCCGCCGCAC CTCCTTATAC TGCTCCTGCT ACTCATGCTC
11801	CCAGAGGACG GCGAGTACTA AGCGGTGATG TTTCTGATCA GATGATGCAA GGTCTCCTGC CGCTCATGAT TCGCCACTAC AAAGACTAGT CTACTACGTT

11851	GACGCAACGG	ACCCGGCGGT	GCGGGCGGCG	CTGCAGAGCC	AGCCGTCCGG
	CTGCGTTGCC	TGGGCCGCCA	CGCCCGCCGC	GACGTCTCGG	TCGGCAGGCC
11901	CCTTAACTCC	ACGGACGACT	GGCGCCAGGT	CATGGACCGC	ATCATGTCGC
	GGAATTGAGG	TGCCTGCTGA	CCGCGGTCCA	GTACCTGGCG	TAGTACAGCG
11951	TGACTGCGCG	CAATCCTGAC	GCGTTCCGGC	AGCAGCCGCA	GGCCAACCGG
	ACTGACGCGC	GTTAGGACTG	CGCAAGGCCG	TCGTCGGCGT	CCGGTTGGCC
12001	CTCTCCGCAA	TTCTGGAAGC	GGTGGTCCCG	GCGCGCGCAA	ACCCCACGCA
	GAGAGGCGTT	AAGACCTTCG	CCACCAGGGC	CGCGCGCGTT	TGGGGTGCGT
12051	CGAGAAGGTG	CTGGCGATCG	TAAACGCGCT	GGCCGAAAAC	AGGGCCATCC
	GCTCTTCCAC	GACCGCTAGC	ATTTGCGCGA	CCGGCTTTTG	TCCCGGTAGG
12101	GGCCCGACGA	GGCCGGCCTG	GTCTACGACG	CGCTGCTTCA	GCGCGTGGCT
	CCGGGCTGCT	CCGGCCGGAC	CAGATGCTGC	GCGACGAAGT	CGCGCACCGA
12151	CGTTACAACA	GCGGCAACGT	GCAGACCAAC	CTGGACCGGC	TGGTGGGGGA
	GCAATGTTGT	CGCCGTTGCA	CGTCTGGTTG	GACCTGGCCG	ACCACCCCCT
12201	TGTGCGCGAG	GCCGTGGCGC	AGCGTGAGCG	CGCGCAGCAG	CAGGGCAACC
	ACACGCGCTC	CGGCACCGCG	TCGCACTCGC	GCGCGTCGTC	GTCCCGTTGG
12251	TGGGCTCCAT	GGTTGCACTA	AACGCCTTCC	TGAGTACACA	GCCCGCCAAC
	ACCCGAGGTA	CCAACGTGAT	TTGCGGAAGG	ACTCATGTGT	CGGGCGGTTG
12301	GTGCCGCGGG CACGGCGCCC	GACAGGAGGA CTGTCCTCCT	A CTACACCAAC GATGTGGTTG	TTTGTGAGCG	CACTGCGGCT GTGACGCCGA
12351	AATGGTGACT	GAGACACCG(C AAAGTGAGGT	GTACCAGTCT	GGGCCAGACT
	TTACCACTGA	CTCTGTGGC(G TTTCACTCCA	CATGGTCAGA	CCCGGTCTGA
12401	ATTTTTCCA	A GACCAGTAGA	A CAAGGCCTGC	AGACCGTAAA	CCTGAGCCAG
	TAAAAAAGGT	CTGGTCATC	F GTTCCGGACG	TCTGGCATTT	GGACTCGGTC
12451	GCTTTCAAAA	A ACTTGCAGGG	G GCTGTGGGGG	GTGCGGGCTC	C CCACAGGCGA
	CGAAAGTTTT	T TGAACGTCC	C CGACACCCC	CACGCCCGAC	G GGTGTCCGCT
12501	CCGCGCGACC	C GTGTCTAGC	T TGCTGACGC(CAACTCGCGG	C CTGTTGCTGC
	GGCGCGCTGC	G CACAGATCG	A ACGACTGCG(GTTGAGCGCG	G GACAACGACG
12551	TGCTAATAGO	C GCCCTTCAC	G GACAGTGGCA	A GCGTGTCCCC	G GGACACATAC
	ACGATTATCO	G CGGGAAGTG	C CTGTCACCG	T CGCACAGGG	C CCTGTGTATG
12601	CTAGGTCACT	T TGCTGACAC	T GTACCGCGA(G GCCATAGGTO	C AGGCGCATGT
	GATCCAGTG/	A ACGACTGTG	A CATGGCGCT(C CGGTATCCA	G TCCGCGTACA
12651	GGACGAGCAT	T ACTTTCCAG	G AGATTACAA	G TGTCAGCCG	C GCGCTGGGGC
	CCTGCTCGT	A TGAAAGGTC	C TCTAATGTT	C ACAGTCGGC	G CGCGACCCCG

12701	AGGAGGACAC GGGCAGCCTG GAGGCAACCC TAAACTACCT GCTGACCAAC TCCTCCTGTG CCCGTCGGAC CTCCGTTGGG ATTTGATGGA CGACTGGTTG
12751	CGGCGGCAGA AGATCCCCTC GTTGCACAGT TTAAACAGCG AGGAGGAGCG GCCGCCGTCT TCTAGGGGAG CAACGTGTCA AATTTGTCGC TCCTCCTCGC
12801	CATTITGCGC TACGTGCAGC AGAGCGTGAG CCTTAACCTG ATGCGCGACG GTAAAACGCG ATGCACGTCG TCTCGCACTC GGAATTGGAC TACGCGCTGC
12851	GGGTAACGCC CAGCGTGGCG CTGGACATGA CCGCGCGCAA CATGGAACCG CCCATTGCGG GTCGCACCGC GACCTGTACT GGCGCGCGTT GTACCTTGGC
12901	GGCATGTATG CCTCAAACCG GCCGTTTATC AACCGCCTAA TGGACTACTT CCGTACATAC GGAGTTTGGC CGGCAAATAG TTGGCGGATT ACCTGATGAA
12951	GCATCGCGCG GCCGCCGTGA ACCCCGAGTA TTTCACCAAT GCCATCTTGACGTAGCGCGC CGGCGGCACT TGGGGCTCAT AAAGTGGTTA CGGTAGAACT
13001	ACCCGCACTG GCTACCGCCC CCTGGTTTCT ACACCGGGGG ATTCGAGGTGTGGGCGTGAC CGATGGCGGG GGACCAAAGA TGTGGCCCCC TAAGCTCCAC
13051	CCCGAGGGTA ACGATGGATT CCTCTGGGAC GACATAGACG ACAGCGTGTT GGGCTCCCAT TGCTACCTAA GGAGACCCTG CTGTATCTGC TGTCGCACAA
13101	TTCCCCGCAA CCGCAGACCC TGCTAGAGTT GCAACAGCGC GAGCAGGCAGAAGGGGCGTT GGCGTCTGGG ACGATCTCAA CGTTGTCGCG CTCGTCCGTC
13151	AGGCGGCGCT GCGAAAGGAA AGCTTCCGCA GGCCAAGCAG CTTGTCCGATTCCGCCGCGA CGCTTTCCTT TCGAAGGCGT CCGGTTCGTC GAACAGGCTA
13201	CTAGGCGCTG CGGCCCCGCG GTCAGATGCT AGTAGCCCAT TTCCAAGCTTGATCCGCGAC GCCGGGGCGC CAGTCTACGA TCATCGGGTA AAGGTTCGAA
13251	GATAGGGTCT CTTACCAGCA CTCGCACCAC CCGCCCGCGC CTGCTGGGCCCCTATCCCAGA GAATGGTCGT GAGCGTGGTG GGCGGGCGCG GACGACCCGC
13301	AGGAGGAGTA CCTAAACAAC TCGCTGCTGC AGCCGCAGCG CGAAAAAAA(TCCTCCTCAT GGATTTGTTG AGCGACGACG TCGGCGTCGC GCTTTTTTT
13351	CTGCCTCCGG CATTTCCCAA CAACGGGATA GAGAGCCTAG TGGACAAGA GACGGAGGCC GTAAAGGGTT GTTGCCCTAT CTCTCGGATC ACCTGTTCT
13401	GAGTAGATGG AAGACGTACG CGCAGGAGCA CAGGGACGTG CCAGGCCCG CTCATCTACC TTCTGCATGC GCGTCCTCGT GTCCCTGCAC GGTCCGGGC
13451	GCCCGCCCAC CCGTCGTCAA AGGCACGACC GTCAGCGGGG TCTGGTGTG CGGGCGGGTG GGCAGCAGTT TCCGTGCTGG CAGTCGCCCC AGACCACAC
13501	GAGGACGATG ACTCGGCAGA CGACAGCAGC GTCCTGGATT TGGGAGGGA CTCCTGCTAC TGAGCCGTCT GCTGTCGTCG CAGGACCTAA ACCCTCCCT

13551	TGGCAACCCG TTTGCGCACC TTCGCCCCAG GCTGGGGAGA ATGTTTTAAA ACCGTTGGGC AAACGCGTGG AAGCGGGGTC CGACCCCTCT TACAAAATTT
13601	AAAAAAAAA GCATGATGCA AAATAAAAAA CTCACCAAGG CCATGGCACC TTTTTTTTT CGTACTACGT TTTATTTTTT GAGTGGTTCC GGTACCGTGG
13651	GAGCGTTGGT TTTCTTGTAT TCCCCTTAGT ATGCGGCGCG CGGCGATGTA CTCGCAACCA AAAGAACATA AGGGGAATCA TACGCCGCGC GCCGCTACAT
13701	TGAGGAAGGT CCTCCTCCCT CCTACGAGAG TGTGGTGAGC GCGGCGCCAG ACTCCTTCCA GGAGGAGGGA GGATGCTCTC ACACCACTCG CGCCGCGGTC
13751	TGGCGGCGGC GCTGGGTTCT CCCTTCGATG CTCCCCTGGA CCCGCCGTTT ACCGCCGCCG CGACCCAAGA GGGAAGCTAC GAGGGGACCT GGGCGGCAAA
13801	GTGCCTCCGC GGTACCTGCG GCCTACCGGG GGGAGAAACA GCATCCGTTA CACGGAGGCG CCATGGACGC CGGATGGCCC CCCTCTTTGT CGTAGGCAAT
13851	CTCTGAGTTG GCACCCCTAT TCGACACCAC CCGTGTGTAC CTGGTGGACA GAGACTCAAC CGTGGGGATA AGCTGTGGTG GGCACACATG GACCACCTGT
13901	ACAAGTCAAC GGATGTGGCA TCCCTGAACT ACCAGAACGA CCACAGCAAC TGTTCAGTTG CCTACACCGT AGGGACTTGA TGGTCTTGCT GGTGTCGTTG
13951	TTTCTGACCA CGGTCATTCA AAACAATGAC TACAGCCCGG GGGAGGCAAG AAAGACTGGT GCCAGTAAGT TTTGTTACTG ATGTCGGGCC CCCTCCGTTC
14001	CACACAGACC ATCAATCTTG ACGACCGGTC GCACTGGGGC GGCGACCTGA GTGTGTCTGG TAGTTAGAAC TGCTGGCCAG CGTGACCCCG CCGCTGGACT
14051	AAACCATCCT GCATACCAAC ATGCCAAATG TGAACGAGTT CATGTTTACC TTTGGTAGGA CGTATGGTTG TACGGTTTAC ACTTGCTCAA GTACAAATGG
14101	AATAAGTTTA AGGCGCGGGT GATGGTGTCG CGCTTGCCTA CTAAGGACAA TTATTCAAAT TCCGCGCCCA CTACCACAGC GCGAACGGAT GATTCCTGTT
14151	TCAGGTGGAG CTGAAATACG AGTGGGTGGA GTTCACGCTG CCCGAGGGCA AGTCCACCTC GACTTTATGC TCACCCACCT CAAGTGCGAC GGGCTCCCGT
14201	ACTACTCCGA GACCATGACC ATAGACCTTA TGAACAACGC GATCGTGGAG TGATGAGGCT CTGGTACTGG TATCTGGAAT ACTTGTTGCG CTAGCACCTC
14251	CACTACTTGA AAGTGGGCAG ACAGAACGGG GTTCTGGAAA GCGACATCGG GTGATGAACT TTCACCCGTC TGTCTTGCCC CAAGACCTTT CGCTGTAGCC
14301	GGTAAAGTTT GACACCCGCA ACTTCAGACT GGGGTTTGAC CCCGTCACTG CCATTTCAAA CTGTGGGCGT TGAAGTCTGA CCCCAAACTG GGGCAGTGAC
14351	GTCTTGTCAT GCCTGGGGTA TATACAAACG AAGCCTTCCA TCCAGACATC CAGAACAGTA CGGACCCCAT ATATGTTTGC TTCGGAAGGT AGGTCTGTAG

14401	ATTITGCTGC CAGGATGCGG GGTGGACTTC ACCCACAGCC GCCTGAGCAA TAAAACGACG GTCCTACGCC CCACCTGAAG TGGGTGTCGG CGGACTCGTT
14451	CTTGTTGGGC ATCCGCAAGC GGCAACCCTT CCAGGAGGGC TTTAGGATCA GAACAACCCG TAGGCGTTCG CCGTTGGGAA GGTCCTCCCG AAATCCTAGT
14501	CCTACGATGA TCTGGAGGGT GGTAACATTC CCGCACTGTT GGATGTGGAC GGATGCTACT AGACCTCCCA CCATTGTAAG GGCGTGACAA CCTACACCTG
14551	GCCTACCAGG CGAGCTTGAA AGATGACACC GAACAGGGCG GGGGTGGCGC CGGATGGTCC GCTCGAACTT TCTACTGTGG CTTGTCCCGC CCCCACCGCG
14601	AGGCGGCAGC AACAGCAGTG GCAGCGGCGC GGAAGAGAAC TCCAACGCGG TCCGCCGTCG TTGTCGTCAC CGTCGCCGCG CCTTCTCTTG AGGTTGCGCC
14651	CAGCCGCGC AATGCAGCCG GTGGAGGACA TGAACGATCA TGCCATTCGC GTCGGCGCCG TTACGTCGGC CACCTCCTGT ACTTGCTAGT ACGGTAAGCG
14701	GGCGACACCT TTGCCACACG GGCTGAGGAG AAGCGCGCTG AGGCCGAAGC CCGCTGTGGA AACGGTGTGC CCGACTCCTC TTCGCGCGAC TCCGGCTTCG
14751	AGCGGCCGAA GCTGCCGCCC CCGCTGCGCA ACCCGAGGTC GAGAAGCCTC TCGCCGGCTT CGACGGCGGG GGCGACGCGT TGGGCTCCAG CTCTTCGGAG
14801	AGAAGAAACC GGTGATCAAA CCCCTGACAG AGGACAGCAA GAAACGCAGT TCTTCTTTGG CCACTAGTTT GGGGACTGTC TCCTGTCGTT CTTTGCGTCA
14851	TACAACCTAA TAAGCAATGA CAGCACCTTC ACCCAGTACC GCAGCTGGTA ATGTTGGATT ATTCGTTACT GTCGTGGAAG TGGGTCATGG CGTCGACCAT
14901	CCTTGCATAC AACTACGGCG ACCCTCAGAC CGGAATCCGC TCATGGACCC GGAACGTATG TTGATGCCGC TGGGAGTCTG GCCTTAGGCG AGTACCTGGG
14951	TGCTTTGCAC TCCTGACGTA ACCTGCGGCT CGGAGCAGGT CTACTGGTCG ACGAAACGTG AGGACTGCAT TGGACGCCGA GCCTCGTCCA GATGACCAGC
15001	TTGCCAGACA TGATGCAAGA CCCCGTGACC TTCCGCTCCA CGCGCCAGAT AACGGTCTGT ACTACGTTCT GGGGCACTGG AAGGCGAGGT GCGCGGTCTA
15051	CAGCAACTTT CCGGTGGTGG GCGCCGAGCT GTTGCCCGTG CACTCCAAGA GTCGTTGAAA GGCCACCACC CGCGGCTCGA CAACGGGCAC GTGAGGTTCT
15101	GCTTCTACAA CGACCAGGCC GTCTACTCCC AACTCATCCG CCAGTTTACC CGAAGATGTT GCTGGTCCGG CAGATGAGGG TTGAGTAGGC GGTCAAATGG
15151	TCTCTGACCC ACGTGTTCAA TCGCTTTCCC GAGAACCAGA TTTTGGCGCG AGAGACTGGG TGCACAAGTT AGCGAAAGGG CTCTTGGTCT AAAACCGCGC
15201	CCCGCCAGCC CCCACCATCA CCACCGTCAG TGAAAACGTT CCTGCTCTCA GGGCGGTCGG GGGTGGTAGT GGTGGCAGTC ACTTTTGCAA GGACGAGAGT

15251	GTCTAGTGCC	CTGCGATGGC	CTGCGCAACA GACGCGTTGT	CGTAGCCTCC	TCAGGTCGCT
15301	GTGACCATTA	CTGACGCCAG	ACGCCGCACC	TGCCCCTACG	TTTACAAGGC
	CACTGGTAAT	GACTGCGGTC	TGCGGCGTGG	ACGGGGATGC	AAATGTTCCG
15351	CCTGGGCATA	GTCTCGCCGC	GCGTCCTATC	GAGCCGCACT	TTTTGAGCAA
	GGACCCGTAT	CAGAGCGGCG	CGCAGGATAG	CTCGGCGTGA	AAAACTCGTT
15401	GCATGTCCAT	CCTTATATCG	CCCAGCAATA	ACACAGGCTG	GGGCCTGCGC
	CGTACAGGTA	GGAATATAGC	GGGTCGTTAT	TGTGTCCGAC	CCCGGACGCG
15451	TTCCCAAGCA	AGATGTTTGG	CGGGGCCAAG	AAGCGCTCCG	ACCAACACCC
	AAGGGTTCGT	TCTACAAACC	GCCCCGGTTC	TTCGCGAGGC	TGGTTGTGGG
15501	AGTGCGCGTG	CGCGGGCACT	ACCGCGCGCC	CTGGGGCGCG	CACAAACGCG
	TCACGCGCAC	GCGCCCGTGA	TGGCGCGCGG	GACCCCGCGC	GTGTTTGCGC
15551	GCCGCACTGG	GCGCACCACC	GTCGATGACG	CCATCGACGC	GGTGGTGGAG
	CGGCGTGACC	CGCGTGGTGG	CAGCTACTGC	GGTAGCTGCG	CCACCACCTC
15601	GAGGCGCGCA	ACTACACGCC	CACGCCGCCA	CCAGTGTCCA	CAGTGGACGC
	CTCCGCGCGT	TGATGTGCGG	GTGCGGCGGT	GGTCACAGGT	GTCACCTGCG
15651	GGCCATTCAG	ACCGTGGTGC	GCGGAGCCCG	GCGCTATGCT	AAAATGAAGA
	CCGGTAAGTC	TGGCACCACG	GCCTCGGGC	CGCGATACGA	TTTTACTTCT
15701	GACGGCGGAG	GCGCGTAGCA	CGTCGCCACC	GCCGCCGACC	CGGCACTGCC
	CTGCCGCCTC	CGCGCATCGT	GCAGCGGTGG	GGGCGGCTGG	GCCGTGACGG
15751	GCCCAACGCG CGGGTTGCGC	CGGCGGCGGCGCCCCCCCCCCCCCCCCCCCCCCCCCCC	CCTGCTTAAC GGACGAATTG	CGCGCACGTC GCGCGTGCAG	GCACCGGCCG GCGTGGCCGGC
15801	ACGGGCGGCCGCCGC	ATGCGGGCCG TACGCCCGG	CTCGAAGGCT CGAGCTTCCGA	GGCCGCGGGT CCGGCGCCCA	ATTGTCACTG TAACAGTGAC
15851	TGCCCCCA(GTCCAGGCG/	A CGAGCGGCCG	CCGCAGCAGC	CGCGGCCATT
	ACGGGGGGT(CAGGTCCGC	C GCTCGCCGGC	CGGCGTCGTCG	GCGCCGGTAA
15901	AGTGCTATG/	A CTCAGGGTC(CAGGGGCAAC	C GTGTATTGGG	TGCGCGACTC
	TCACGATAC	F GAGTCCCAG	CGTCCCCGTTG	G CACATAACCG	ACGCGCTGAG
15951	GGTTAGCGG(CCAATCGCCC	C CTGCGCGTGG G GACGCGCAC	C CCGTGCGCAC G GGCACGCGTC	CCGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	G CGCAACTAGA C GCGTTGATCT
16001	TTGCAAGAA	A AAACTACTT.	A GACTCGTACT	T GTTGTATGT/	A TCCAGCGGCG
	AACGTTCTT	T TTTGATGAA	T CTGAGCATG/	A CAACATACA	T AGGTCGCCGC
16051	GCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	A ACGAAGCTA T TGCTTCGAT	T GTCCAAGCG(A CAGGTTCGC(C AAAATCAAA G TITTAGTTT	AAGAGATGCT TTCTCTACGA

16101	CCAGGTCATC GCG GGTCCAGTAG CGC	GCCGGAGA GGCCTCT	TCTATGGCCC AGATACCGGG	CCCGAAGAAG GGGCTTCTTC	GAAGAGCAGG CTTCTCGTCC
16151	ATTACAAGCC CCG TAATGTTCGG GGC	GAAAGCTA CTTTCGAT	AAGCGGGTCA TTCGCCCAGT	AAAAGAAAAA TTTTCTTTTT	GAAAGATGAT CTTTCTACTA
16201	GATGATGAAC TTO CTACTACTTG AAC	GACGACGA CTGCTGCT	GGTGGAACTG CCACCTTGAC	CTGCACGCTA GACGTGCGAT	CCGCGCCCAG GGCGCGGGTC
16251	GCGACGGGTA CAC	GTGGAAAG CACCTTTC	GTCGACGCGT CAGCTGCGCA	AAAACGTGTT TTTTGCACAA	TTGCGACCCG AACGCTGGGC
16301	GCACCACCGT AGCGTGGTGGCA TCA	TCTTTACG AGAAATGC	CCCGGTGAGC GGGCCACTCG	GCTCCACCCG CGAGGTGGGC	CACCTACAAG GTGGATGTTC
16351	CGCGTGTATG ATO	GAGGTGTA CTCCACAT	CGGCGACGAG GCCGCTGCTC	GACCTGCTTG CTGGACGAAC	AGCAGGCCAA TCGTCCGGTT
16401	CGAGCGCCTC GG GCTCGCGGAG CC	GGAGTTTG CCTCAAAC	CCTACGGAAA GGATGCCTTT	GCGGCATAAG CGCCGTATTC	GACATGCTGG CTGTACGACC
16451	CGTTGCCGCT GG GCAACGGCGA CC	ACGAGGGC TGCTCCCG	AACCCAACAC TTGGGTTGTG	CTAGCCTAAA GATCGGATTT	GCCCGTAACA CGGGCATTGT
16501	CTGCAGCAGG TG GACGTCGTCC AC	CTGCCCGC GACGGGCG	GCTTGCACCG CGAACGTGGC	TCCGAAGAAA AGGCTTCTTT	AGCGCGGCCT TCGCGCCGGA
16551	AAAGCGCGAG TC	TGGTGACT ACCACTGA	TGGCACCCAC ACCGTGGGTG	CGTGCAGCTG GCACGTCGAC	ATGGTACCCA TACCATGGGT
16601	AGCGCCAGCG ACTCGCGGTCGC TG	TGGAAGAT ACCTTCTA	GTCTTGGAAA CAGAACCTTT	AAATGACCGT TTTACTGGCA	GGAACCTGGG CCTTGGACCC
16651	CTGGAGCCCG AG	GTCCGCGT CAGGCGCA	GCGGCCAATC CGCCGGTTAG	AAGCAGGTGG TTCGTCCACC	CGCCGGGACT CGCGGCCCTGA
16701	GGGCGTGCAG AC	CGTGGACG GCACCTGC	TTCAGATACC AAGTCTATGG	CACTACCAGT GTGATGGTCA	AGCACCAGTA TCGTGGTCAT
16751	TTGCCACCGC CA	ACAGAGGGC FGTCTCCCG	ATGGAGACAC TACCTCTGTG	AAACGTCCCC	G GGTTGCCTCA G CCAACGGAGT
16801	GCGGTGGCGG AT	rgccgcggt Acggcgcc <i>p</i>	GCAGGCGGTC CGTCCGCCAG	GCTGCGGCCGGCCGGC	G CGTCCAAGAC C GCAGGTTCTG
16851	CTCTACGGAG G	TGCAAACGG ACGTTTGCC	ACCCGTGGAT TGGGCACCTA	GTTTCGCGT CAAAGCGCAA	T TCAGCCCCCC A AGTCGGGGGG
16901	GGCGCCCGCG CC	CGTTCGAGG GCAAGCTCG	AAGTACGGCC	G CCGCCAGCGC C GGCGGTCGCC	G GCTACTGCCC G CGATGACGGG

16951	CTTATACGGG	ATGTAGGAAG	GTAACGCGGA	ACCCCCGGCT TGGGGGCCGA	TAGCACCGAT
17001	CACCTACCGC	CCCAGAAGAC	GAGCAACTAC	CCGACGCCGA	ACCACCACTG
	GTGGATGGCG	GGGTCTTCTG	CTCGTTGATG	GGCTGCGGCT	TGGTGGTGAC
17051	GAACCCGCCG	CCGCCGTCGC	CGTCGCCAGC	CCGTGCTGGC	CCCGATTTCC
	CTTGGGCGGC	GGCGGCAGCG	GCAGCGGTCG	GGCACGACCG	GGGCTAAAGG
17101	GTGCGCAGGG	TGGCTCGCGA	AGGAGGCAGG	ACCCTGGTGC	TGCCAACAGC
	CACGCGTCCC	ACCGAGCGCT	TCCTCCGTCC	TGGGACCACG	ACGGTTGTCG
17151	GCGCTACCAC	CCCAGCATCG	TTTAAAAGCC	GGTCTTTGTG	GTTCTTGCAG
	CGCGATGGTG	GGGTCGTAGC	AAATTTTCGG	CCAGAAACAC	CAAGAACGTC
17201	ATATGGCCCT	CACCTGCCGC	CTCCGTTTCC	CGGTGCCGGG	ATTCCGAGGA
	TATACCGGGA	GTGGACGGCG	GAGGCAAAGG	GCCACGGCCC	TAAGGCTCCT
17251	AGAATGCACC	GTAGGAGGGG	CATGGCCGGC	CACGGCCTGA	CGGGCGGCAT
	TCTTACGTGG	CATCCTCCC	GTACCGGCCG	GTGCCGGACT	GCCCGCCGTA
17301	GCGTCGTGCG CGCAGCACGC	CACCACCGGC GTGGTGGCCG	GGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC	GTCGCACCGT GCAGCGTGGCA	CGCATGCGCG GCGTACGCGC
17351	GCGGTATCCT	GCCCCTCCTT	ATTCCACTGA	TCGCCGCGGC	GATTGGCGCC
	CGCCATAGGA	CGGGGAGGAA	TAAGGTGACT	AGCGGCGCCG	CTAACCGCGG
17401	GTGCCCGGAA	TTGCATCCGT	GGCCTTGCAG	GCGCAGAGAC	ACTGATTAAA
	CACGGGCCTT	AACGTAGGCA	CCGGAACGTC	CCGCGTCTCTG	TGACTAATTT
17451	AACAAGTTG0	ATGTGGAAA/	A ATCAAAATAA	A AAAGTCTGGA	CTCTCACGCT
	TTGTTCAACG	TACACCTTT	T TAGTTTTATT	T TTTCAGACCT	GAGAGTGCGA
17501	CGCTTGGTC0	TGTAACTAT	T TTGTAGAATO	G GAAGACATCA	A ACTTTGCGTC
	GCGAACCAG0	ACATTGATA	A AACATCTTAO	C CTTCTGTAGT	TGAAACGCAG
17551	TCTGGCCCCC AGACCGGGGC	G CGACACGGC	T CGCGCCCGT A GCGCGGGCA	T CATGGGAAAC A GTACCCTTTC	TGGCAAGATA ACCGTTCTAT
17601	TCGGCACCA(G CAATATGAG	C GGTGGCGCC	T TCAGCTGGG(G CTCGCTGTGG
	AGCCGTGGT(C GTTATACTC	G CCACCGCGG	A AGTCGACCC	C GAGCGACACC
17651	AGCGGCATT/	A AAAATTTCG	G TTCCACCGT	T AAGAACTAT(G GCAGCAAGGC
	TCGCCGTAA	T TTTTAAAGC	C AAGGTGGCA	A TTCTTGATA(C CGTCGTTCCG
17701	CTGGAACAG	C AGCACAGGC	C AGATGCTGA	G GGATAAGTT	G AAAGAGCAAA
	GACCTTGTC	G TCGTGTCCG	G TCTACGACT	C CCTATTCAA	C TTTCTCGTTT
17751	ATTTCCAAC TAAAGGTTG	A AAAGGTGGT T TTTCCACCA	A GATGGCCTG	G CCTCTGGCA C GGAGACCGT	T TAGCGGGGTG A ATCGCCCCAC

17801	GTGGACCTGG CCAA CACCTGGACC GGTT	CCAGGC GGTCCG	AGTGCAAAAT TCACGTTTTA	AAGATTAACA TTCTAATTGT	GTAAGCTTGA CATTCGAACT
17851	TCCCCGCCCT CCCC	TAGAGG CATCTCC	AGCCTCCACC TCGGAGGTGG	GGCCGTGGAG CCGGCACCTC	ACAGTGTCTC TGTCACAGAG
17901	CAGAGGGGCG TGGC	GAAAAG GCTTTTC	CGTCCGCGCC GCAGGCGCGG	CCGACAGGGA GGCTGTCCCT	AGAAACTCTG TCTTTGAGAC
17951	GTGACGCAAA TAGACCACTGCGTTT ATC	ACGAGCC FGCTCGG	TCCCTCGTAC AGGGAGCATG	GAGGAGGCAC CTCCTCCGTG	TAAAGCAAGG ATTTCGTTCC
18001	CCTGCCCACC ACC	CGTCCCA GCAGGGT	TCGCGCCCAT AGCGCGGGTA	GGCTACCGGA CCGATGGCCT	GTGCTGGGCC CACGACCCGG
18051	AGCACACACC CGT. TCGTGTGTGG GCA	AACGCTG TTGCGAC	GACCTGCCT(CTGGACGGA(C CCCCGCCGA G GGGGGCGGCT	CACCCAGCAG GTGGGTCGTC
18101	AAACCTGTGC TGC	CAGGCCC GTCCGGG	GACCGCCGT CTGGCGGCA	T GTTGTAACCC A CAACATTGGG	GTCCTAGCCG CAGGATCGGC
18151	CGCGTCCCTG CGC GCGCAGGGAC GCG	CGCGCCG GCGCGGC	CCAGCGGTC0 GGTCGCCAG	C GCGATCGTTG G CGCTAGCAAC	CGGCCCGTAG CGCCGGGCATC
18201	CCAGTGGCAA CTG GGTCACCGTT GAC	GCAAAGC CGTTTCG	ACACTGAAC TGTGACTTG	A GCATCGTGGG T CGTAGCACCG	TCTGGGGGTG AGACCCCCAC
18251	CAATCCCTGA AGO GTTAGGGACT TCG	GCCGACG GCGGCTGC	ATGCTTCTG TACGAAGAC	A TAGCTAACGT T ATCGATTGC/	GTCGTATGTG CAGCATACAC
18301	TGTCATGTAT GCG ACAGTACATA CGG	TCCATGT AGGTACA	CGCCGCCAG GCGGCGGTC	A GGAGCTGCT(T CCTCGACGA(AGCCGCCGCG TCGGCGGCGC
18351	CGCCCGCTTT CCA GCGGGCGAAA GGT	AGATGGC FTCTACCG	TACCCCTTC ATGGGGAAG	G ATGATGCCGGC TACTACGGC	C AGTGGTCTTA G TCACCAGAAT
18401	CATGCACATC TCC GTACGTGTAG AGC	GGCCAGG CCCGGTCC	ACGCCTCGG TGCGGAGCC	A GTACCTGAG T CATGGACTC	C CCCGGGCTGG G GGGCCCGACC
18451	TGCAGTTTGC CCC	GCGCCACC CGCGGTGG	GAGACGTAC CTCTGCATG	T TCAGCCTGA A AGTCGGACT	A TAACAAGTTT T ATTGTTCAAA
18501	AGAAACCCCA CG	GTGGCGCC CACCGCGC	TACGCACGA ATGCGTGCT	AC GTGACCACA TG CACTGGTGT	G ACCGGTCCCA C TGGCCAGGGT
18551	CGCAAACTGC GA	CGCCAAG	r AGGGACACO	SI GGCACICCI	A IGACGCATGA
18601	. CGTACAAGGC GC GCATGTTCCG CG	GGTTCAC(CCAAGTG(C CTAGCTGT(G GATCGACA(GG GTGATAACC CC CACTATTGG	G TGTGCTGGAC C ACACGACCTG

18651	ATGGCTTCCA	CGTACTTTGA	CATCCGCGGC	GTGCTGGACA	GGGGCCCTAC
	TACCGAAGGT	GCATGAAACT	GTAGGCGCCG	CACGACCTGT	CCCCGGGATG
18701	TTTTAAGCCC	TACTCTGGCA	CTGCCTACAA	CGCCCTGGCT	CCCAAGGGTG
	AAAATTCGGG	ATGAGACCGT	GACGGATGTT	GCGGGACCGA	GGGTTCCCAC
18751	CCCCAAATCC	TTGCGAATGG	GATGAAGCTG	CTACTGCTCT	TGAAATAAAC
	GGGGTTTAGG	AACGCTTACC	CTACTTCGAC	GATGACGAGA	ACTTTATTTG
18801	CTAGAAGAAG	AGGACGATGA	CAACGAAGAC	GAAGTAGACG	AGCAAGCTGA
	GATCTTCTTC	TCCTGCTACT	GTTGCTTCTG	CTTCATCTGC	TCGTTCGACT
18851	GCAGCAAAAA	ACTCACGTAT	TTGGGCAGGC	GCCTTATTCT	GGTATAAATA
	CGTCGTTTTT	TGAGTGCATA	AACCCGTCCG	CGGAATAAGA	CCATATTTAT
18901	TTACAAAGGA	GGGTATTCAA	ATAGGTGTCG	AAGGTCAAAC	ACCTAAATAT
	AATGTTTCCT	CCCATAAGTT	TATCCACAGC	TTCCAGTTTG	TGGATTTATA
18951	GCCGATAAAA	CATTTCAACC	TGAACCTCAA	ATAGGAGAAT	CTCAGTGGTA
	CGGCTATTTT	GTAAAGTTGG	ACTTGGAGTT	TATCCTCTTA	GAGTCACCAT
19001	CGAAACAGAA	ATTAATCATG	CAGCTGGGAG	AGTCCTAAAA	AAGACTACCC
	GCTTTGTCTT	TAATTAGTAC	GTCGACCCTC	TCAGGATTTT	TTCTGATGGG
19051	CAATGAAACC	ATGTTACGGT	TCATATGCAA	AACCCACAAA	TGAAAATGGA
	GTTACTTTGG	TACAATGCCA	AGTATACGTT	TTGGGTGTTT	ACTTTTACCT
19101	GGGCAAGGCA	TTCTTGTAAA	GCAACAAAAT	GGAAAGCTAG	AAAGTCAAGT
	CCCGTTCCGT	AAGAACATTT	CGTTGTTTTA	CCTTTCGATG	TTTCAGTTCA
19151	GGAAATGCAA	TTTTTCTCAA	CTACTGAGGC	AGCCGCAGGG	C AATGGTGATA
	CCTTTACGTT	AAAAAGAGTT	GATGACTCC	TCGGCGTCCG	G TTACCACTAT
19201	ACTTGACTCC	TAAAGTGGTA	TTGTACAGTO	AAGATGTAGA	TATAGAAACC
	TGAACTGAGG	ATTTCACCAT	AACATGTCAO	TTCTACATC	TATATCTTTGG
19251	CCAGACACTC GGTCTGTGAG	ATATTTCTTA TATAAAGAA	A CATGCCCACT	T ATTAAGGAA(A TAATTCCTT(G GTAACTCACG C CATTGAGTGC
19301	AGAACTAATG	GGCCAACAAT	CTATGCCCAA	A CAGGCCTAA	T TACATTGCTT
	TCTTGATTAC	CCGGTTGTTA	GATACGGGT	T GTCCGGATT	A ATGTAACGAA
19351	TTAGGGACAA	TTTTATTGG	T CTAATGTAT	T ACAACAGCA	C GGGTAATATG
	AATCCCTGTT	AAAATAACC	A GATTACATA	A TGTTGTCGT	G CCCATTATAC
19401	GGTGTTCTGG	CGGGCCAAGC	C ATCGCAGTTO	G AATGCTGTT	G TAGATTTGCA
	CCACAAGACC	GCCCGGTTCC	G TAGCGTCAA	C TTACGACAA	C ATCTAAACGT
19451	AGACAGAAAC	ACAGAGCTT	T CATACCAGC	T TTTGCTTGA	T TCCATTGGTG
	TCTGTCTTTC	TGTCTCGAA	A GTATGGTCG	A AAACGAACT	A AGGTAACCAC

19501	ATAGAACCAG GTACTTTTCT ATGTGGAATC AGGCTGTTGA CAGCTATGAT TATCTTGGTC CATGAAAAGA TACACCTTAG TCCGACAACT GTCGATACTA
19551	CCAGATGTTA GAATTATTGA AAATCATGGA ACTGAAGATG AACTTCCAAA GGTCTACAAT CTTAATAACT TTTAGTACCT TGACTTCTAC TTGAAGGTTT
19601	TTACTGCTTT CCACTGGGAG GTGTGATTAA TACAGAGACT CTTACCAAGG AATGACGAAA GGTGACCCTC CACACTAATT ATGTCTCTGA GAATGGTTCC
19651	TAAAACCTAA AACAGGTCAG GAAAATGGAT GGGAAAAAGA TGCTACAGAA ATTTTGGATT TTGTCCAGTC CTTTTACCTA CCCTTTTTCT ACGATGTCTT
19701	TTTTCAGATA AAAATGAAAT AAGAGTTGGA AATAATTTTG CCATGGAAAT AAAAGTCTAT TTTTACTTTA TTCTCAACCT TTATTAAAAC GGTACCTTTA
19751	CAATCTAAAT GCCAACCTGT GGAGAAATTT CCTGTACTCC AACATAGCGC GTTAGATTTA CGGTTGGACA CCTCTTTAAA GGACATGAGG TTGTATCGCG
19801	TGTATTTGCC CGACAAGCTA AAGTACAGTC CTTCCAACGT AAAAATTTCT ACATAAACGG GCTGTTCGAT TTCATGTCAG GAAGGTTGCA TTTTTAAAGA
19851	GATAACCCAA ACACCTACGA CTACATGAAC AAGCGAGTGG TGGCTCCCGG CTATTGGGTT TGTGGATGCT GATGTACTTG TTCGCTCACC ACCGAGGGCC
19901	GCTAGTGGAC TGCTACATTA ACCTTGGAGC ACGCTGGTCC CTTGACTATA CGATCACCTG ACGATGTAAT TGGAACCTCG TGCGACCAGG GAACTGATAT
19951	TGGACAACGT CAACCCATTT AACCACCACC GCAATGCTGG CCTGCGCTAC ACCTGTTGCA GTTGGGTAAA TTGGTGGTGG CGTTACGACC GGACGCGATG
20001	CGCTCAATGT TGCTGGGCAA TGGTCGCTAT GTGCCCTTCC ACATCCAGGT GCGAGTTACA ACGACCCGTT ACCAGCGATA CACGGGAAGG TGTAGGTCCA
20051	GCCTCAGAAG TTCTTTGCCA TTAAAAACCT CCTTCTCCTG CCGGGCTCAT CGGAGTCTTC AAGAAACGGT AATTTTTGGA GGAAGAGGAC GGCCCGAGTA
20101	ACACCTACGA GTGGAACTTC AGGAAGGATG TTAACATGGT TCTGCAGAGC TGTGGATGCT CACCTTGAAG TCCTTCCTAC AATTGTACCA AGACGTCTCG
20151	TCCCTAGGAA ATGACCTAAG GGTTGACGGA GCCAGCATTA AGTTTGATAG AGGGATCCTT TACTGGATTC CCAACTGCCT CGGTCGTAAT TCAAACTATC
20201	CATTTGCCTT TACGCCACCT TCTTCCCCAT GGCCCACAAC ACCGCCTCCA GTAAACGGAA ATGCGGTGGA AGAAGGGGTA CCGGGTGTTG TGGCGGAGGT
20251	CGCTTGAGGC CATGCTTAGA AACGACACCA ACGACCAGTC CTTTAACGAC GCGAACTCCG GTACGAATCT TTGCTGTGGT TGCTGGTCAG GAAATTGCTG
20301	TATCTCTCCG CCGCCAACAT GCTCTACCCT ATACCCGCCA ACGCTACCAA ATAGAGAGGC GGCGGTTGTA CGAGATGGGA TATGGGCGGT TGCGATGGTT

20351	CGTGCCCATA TCCATCCCCT CCCGCAACTG GGCGGCTTTC CGCGGCTGGG GCACGGGTAT AGGTAGGGGA GGGCGTTGAC CCGCCGAAAG GCGCCGACCC
20401	CCTTCACGCG CCTTAAGACT AAGGAAACCC CATCACTGGG CTCGGGCTAC GGAAGTGCGC GGAATTCTGA TTCCTTTGGG GTAGTGACCC GAGCCCGATG
20451	GACCCTTATT ACACCTACTC TGGCTCTATA CCCTACCTAG ATGGAACCTT CTGGGAATAA TGTGGATGAG ACCGAGATAT GGGATGGATC TACCTTGGAA
20501	TTACCTCAAC CACACCTTTA AGAAGGTGGC CATTACCTTT GACTCTTCTG AATGGAGTTG GTGTGGAAAT TCTTCCACCG GTAATGGAAA CTGAGAAGAC
20551	TCAGCTGGCC TGGCAATGAC CGCCTGCTTA CCCCCAACGA GTTTGAAATT AGTCGACCGG ACCGTTACTG GCGGACGAAT GGGGGTTGCT CAAACTTTAA
20601	AAGCGCTCAG TTGACGGGGA GGGTTACAAC GTTGCCCAGT GTAACATGAC TTCGCGAGTC AACTGCCCCT CCCAATGTTG CAACGGGTCA CATTGTACTG
20651	CAAAGACTGG TTCCTGGTAC AAATGCTAGC TAACTATAAC ATTGGCTACC GTTTCTGACC AAGGACCATG TTTACGATCG ATTGATATTG TAACCGATGG
20701	AGGGCTTCTA TATCCCAGAG AGCTACAAGG ACCGCATGTA CTCCTTCTTT TCCCGAAGAT ATAGGGTCTC TCGATGTTCC TGGCGTACAT GAGGAAGAAA
20751	AGAAACTTCC AGCCCATGAG CCGTCAGGTG GTGGATGATA CTAAATACAA TCTTTGAAGG TCGGGTACTC GGCAGTCCAC CACCTACTAT GATTTATGTT
20801	GGACTACCAA CAGGTGGGCA TCCTACACCA ACACAACAAC TCTGGATTTG CCTGATGGTT GTCCACCCGT AGGATGTGGT TGTGTTGTTG AGACCTAAAC
20851	TTGGCTACCT TGCCCCCACC ATGCGCGAAG GACAGGCCTA CCCTGCTAACAACCGATGGA ACGGGGGTGG TACGCGCTTC CTGTCCGGAT GGGACGATTG
20901	TTCCCCTATC CGCTTATAGG CAAGACCGCA GTTGACAGCA TTACCCAGAAAAGGGGATAG GCGAATATCC GTTCTGGCGT CAACTGTCGT AATGGGTCTT
20951	AAAGTTTCTT TGCGATCGCA CCCTTTGGCG CATCCCATTC TCCAGTAACT
21001	TTATGTCCAT GGGCGCACTC ACAGACCTGG GCCAAAACCT TCTCTACGCCAAAACCT TCTCTACGCCAAAACCT TCTCTACGCCAAAACCT TCTCTACGCCAAAAACCT TCTCTACGCCCAAAAACCT TCTCTACGCCCAAAAACCT TCTCTACGCCCAAAAAACCT TCTCTACGCCCAAAAACCT TCTCTACGCCCAAAAACCT TCTCTACGCCCAAAAACCT TCTCTACGCCCAAAAACCT TCTCTACGCCCAAAAACCT TCTCTACGCCCAAAAACCT TCTCTACGCCCAAAAACCCT TCTCTACGCCCAAAAACCCT TCTCTACGCCCAAAAACCCT TCTCTACGCCCAAAAAACCCT TCTCTACGCCCAAAAAAACCCT TCTCTACGCCCAAAAAACCCT TCTCTACGCCCAAAAAACCCT TCTCTACGCCCAAAAAACCCT TCTCTACGCCCAAAAAACCCT TCTCTACGCCCAAAAAACCCT TCTCTACGCCCAAAAAACCCT TCTCTACGCCCAAAAAACCCT TCTCTACGCCCAAAAAACCCT TCTCTACGCCAAAAAACCCT TCTCTACGCCCAAAAAAACCCT TCTCTACGCCCAAAAAAACCCT TCTCTACGCCAAAAAAACCCT TCTCTACGCCCAAAAAACCCT TCTCTACGCCAAAAAAACCCT TCTCTACGCCAAAAAAACCCT TCTCTACAAAAAACCCT TCTCTACAAAAAACCCT TCTCTACAAAAAACCCT TCTCTACAAAAAACCCT TCTCTACAAAAAAAA
21051	AACTCCGCCC ACGCGCTAGA CATGACTTTT GAGGTGGATC CCATGGACG/ TTGAGGCGGG TGCGCGATCT GTACTGAAAA CTCCACCTAG GGTACCTGC
21101	CGGGTGGGAA GAAATACAAA ACAAACTTCA GAAACTGCAC CAGGCACACT
21151	ACCAGCCGCA CCGCGGCGTC ATCGAAACCG TGTACCTGCG CACGCCCTTCTGGTCGGCGT GGCGCCGCAG TAGCTTTGGC ACATGGACGC GTGCGGGAA

21201	TCGGCCGGCA ACGCCACAAC ATAAAGAAGC AAGCAACATC AACAACAGCT AGCCGGCCGT TGCGGTGTTG TATTTCTTCG TTCGTTGTAG TTGTTGTCGA
21251	GCCGCCATGG GCTCCAGTGA GCAGGAACTG AAAGCCATTG TCAAAGATCT CGGCGGTACC CGAGGTCACT CGTCCTTGAC TTTCGGTAAC AGTTTCTAGA
21301	TGGTTGTGGG CCATATTTTT TGGGCACCTA TGACAAGCGC TTTCCAGGCT ACCAACACCC GGTATAAAAA ACCCGTGGAT ACTGTTCGCG AAAGGTCCGA
21351	TTGTTTCTCC ACACAAGCTC GCCTGCGCCA TAGTCAATAC GGCCGGTCGC AACAAAGAGG TGTGTTCGAG CGGACGCGGT ATCAGTTATG CCGGCCAGCG
21401	GAGACTGGGG GCGTACACTG GATGGCCTTT GCCTGGAACC CGCACTCAAA CTCTGACCCC CGCATGTGAC CTACCGGAAA CGGACCTTGG GCGTGAGTTT
21451	AACATGCTAC CTCTTTGAGC CCTTTGGCTT TTCTGACCAG CGACTCAAGC TTGTACGATG GAGAAACTCG GGAAACCGAA AAGACTGGTC GCTGAGTTCG
21501	AGGTTTACCA GTTTGAGTAC GAGTCACTCC TGCGCCGTAG CGCCATTGCT TCCAAATGGT CAAACTCATG CTCAGTGAGG ACGCGGCATC GCGGTAACGA
21551	TCTTCCCCCG ACCGCTGTAT AACGCTGGAA AAGTCCACCC AAAGCGTACA AGAAGGGGC TGGCGACATA TTGCGACCTT TTCAGGTGGG TTTCGCATGT
21601	GGGGCCCAAC TCGGCCGCCT GTGGACTATT CTGCTGCATG TTTCTCCACG CCCCGGGTTG AGCCGGCGGA CACCTGATAA GACGACGTAC AAAGAGGTGC
21651	CCTTTGCCAA CTGGCCCCAA ACTCCCATGG ATCACAACCC CACCATGAAC GGAAACGGTT GACCGGGGTT TGAGGGTACC TAGTGTTGGG GTGGTACTTG
21701	CTTATTACCG GGGTACCCAA CTCCATGCTC AACAGTCCCC AGGTACAGCC GAATAATGGC CCCATGGGTT GAGGTACGAG TTGTCAGGGG TCCATGTCGG
21751	CACCCTGCGT CGCAACCAGG AACAGCTCTA CAGCTTCCTG GAGCGCCACT GTGGGACGCA GCGTTGGTCC TTGTCGAGAT GTCGAAGGAC CTCGCGGTGA
21801	CGCCCTACTT CCGCAGCCAC AGTGCGCAGA TTAGGAGCGC CACTTCTTTT GCGGGATGAA GGCGTCGGTG TCACGCGTCT AATCCTCGCG GTGAAGAAAA
21851	TGTCACTTGA AAAACATGTA AAAATAATGT ACTAGAGACA CTTTCAATAA ACAGTGAACT TTTTGTACAT TTTTATTACA TGATCTCTGT GAAAGTTATT
21901	TCCGTTTACG AAAATAAACA TGTGAGAGCC CACTAATAAA TGGGGGTGGG
21951	AACGGCAGAC GCGGCAAATT TTTAGTTTCC CCAAGACGGC GCGTAGCGAT
22001	TGCGCCACTG GCAGGGACAC GTTGCGATAC TGGTGTTTAG TGCTCCACTT ACGCGGTGAC CGTCCCTGTG CAACGCTATG ACCACAAATC ACGAGGTGAA

22051	AAACTCAGGC	ACAACCATCC	GCGGCAGCTC	GGTGAAGTTT	TCACTCCACA
	TTTGAGTCCG	TGTTGGTAGG	CGCCGTCGAG	CCACTTCAAA	AGTGAGGTGT
22101	GGCTGCGCAC	CATCACCAAC	GCGTTTAGCA	GGTCGGGCGC	CGATATCTTG
	CCGACGCGTG	GTAGTGGTTG	CGCAAATCGT	CCAGCCCGCG	GCTATAGAAC
22151	AAGTCGCAGT	TGGGGCCTCC	GCCCTGCGCG	CGCGAGTTGC	GATACACAGG
	TTCAGCGTCA	ACCCCGGAGG	CGGGACGCGC	GCGCTCAACG	CTATGTGTCC
22201	GTTGCAGCAC	TGGAACACTA	TCAGCGCCGG	GTGGTGCACG	CTGGCCAGCA
	CAACGTCGTG	ACCTTGTGAT	AGTCGCGGCC	CACCACGTGC	GACCGGTCGT
22251	CGCTCTTGTC	GGAGATCAGA	TCCGCGTCCA	GGTCCTCCGC	GTTGCTCAGG
	GCGAGAACAG	CCTCTAGTCT	AGGCGCAGGT	CCAGGAGGCG	CAACGAGTCC
22301	GCGAACGGAG	TCAACTTTGG	TAGCTGCCTT	CCCAAAAAGG	GCGCGTGCCC
	CGCTTGCCTC	AGTTGAAACC	ATCGACGGAA	GGGTTTTTCC	CGCGCACGGG
22351	AGGCTTTGAG	TTGCACTCGC	ACCGTAGTGG	CATCAAAAGG	TGACCGTGCC
	TCCGAAACTC	AACGTGAGCG	TGGCATCACC	GTAGTTTTCC	ACTGGCACGG
22401	CGGTCTGGGC	GTTAGGATAC	AGCGCCTGCA	TAAAAGCCTT	GATCTGCTTA
	GCCAGACCCG	CAATCCTATG	TCGCGGACGT	ATTTTCGGAA	CTAGACGAAT
22451	AAAGCCACCT	GAGCCTTTGC	GCCTTCAGAG	AAGAACATGC	CGCAAGACTT
	TTTCGGTGGA	CTCGGAAACG	GCGGAAGTCTC	TTCTTGTACG	GCGTTCTGAA
22501	GCCGGAAAAC CGGCCTTTTG	TGATTGGCCG	GACAGGCCGC CTGTCCGGCG	GTCGTGCACG GCACGTGC	CAGCACCTTG GTCGTGGAAC
22551	CGTCGGTGTT	GGAGATCTGO	C ACCACATTTC	GGCCCCACCG	GTTCTTCACG
	GCAGCCACAA	CCTCTAGACO	G TGGTGTAAAG	CCGGGGTGGC	CAAGAAGTGC
22601	ATCTTGGCCT	TGCTAGACT(G CTCCTTCAGC	GCGCGCTGCC	CGTTTTCGCT
	TAGAACCGGA	ACGATCTGA(C GAGGAAGTCG	GCGCGACGG	GCAAAAGCGA
22651	CGTCACATCO	ATTTCAATCA	A CGTGCTCCTT	ATTTATCATA	A ATGCTTCCGT
	GCAGTGTAGO	TAAAGTTAG	F GCACGAGGAA	TAAATAGTAT	TACGAAGGCA
22701	GTAGACACTT CATCTGTGAA	AAGCTCGCC	T TCGATCTCAG A AGCTAGAGTO	G CGCAGCGGTO GCGTCGCCAO	CAGCCACAAC CGTCGGTGTTG
22751	GCGCAGCCC(CGCGTCGGG(TGGGCTCGT	G ATGCTTGTAC C TACGAACATC	G GTCACCTCTC C CAGTGGAGA(G CAAACGACTG C GTTTGCTGAC
22801	CAGGTACGC(GTCCATGCG(C TGCAGGAAT G ACGTCCTTA	C GCCCCATCATG CGGGGTAGT	T CGTCACAAA A GCAGTGTTT	G GTCTTGTTGC C CAGAACAACG
22851	TGGTGAAGG	T CAGCTGCAA	C CCGCGGTGC	T CCTCGTTCA	G CCAGGTCTTG
	ACCACTTCC	A GTCGACGTT	G GGCGCCACG	A GGAGCAAGT	C GGTCCAGAAC

22901	CATACGGCCG CCAGAGCTTC CACTTGGTCA GGCAGTAGTT TGAAGTTCGC GTATGCCGGC GGTCTCGAAG GTGAACCAGT CCGTCATCAA ACTTCAAGCG
22951	CTTTAGATCG TTATCCACGT GGTACTTGTC CATCAGCGCG CGCGCAGCCT GAAATCTAGC AATAGGTGCA CCATGAACAG GTAGTCGCGC GCGCGTCGGA
23001	CCATGCCCTT CTCCCACGCA GACACGATCG GCACACTCAG CGGGTTCATC GGTACGGAA GAGGGTGCGT CTGTGCTAGC CGTGTGAGTC GCCCAAGTAG
23051	ACCGTAATTT CACTTTCCGC TTCGCTGGGC TCTTCCTCTT CCTCTTGCGT TGGCATTAAA GTGAAAGGCG AAGCGACCCG AGAAGGAGAA GGAGAACGCA
23101	CCGCATACCA CGCGCCACTG GGTCGTCTTC ATTCAGCCGC CGCACTGTGC GGCGTATGGT GCGCGGTGAC CCAGCAGAAG TAAGTCGGCG GCGTGACACG
23151	GCTTACCTCC TTTGCCATGC TTGATTAGCA CCGGTGGGTT GCTGAAACCC CGAATGGAGG AAACGGTACG AACTAATCGT GGCCACCCAA CGACTTTGGG
23201	ACCATTTGTA GCGCCACATC TTCTCTTTCT TCCTCGCTGT CCACGATTAC TGGTAAACAT CGCGGTGTAG AAGAGAAAGA AGGAGCGACA GGTGCTAATG
23251	CTCTGGTGAT GGCGGGCGCT CGGGCTTGGG AGAAGGGCGC TTCTTTTCT GAGACCACTA CCGCCCGCGA GCCCGAACCC TCTTCCCGCG AAGAAAAAGA
23301	TCTTGGGCGC AATGGCCAAA TCCGCCGCCG AGGTCGATGG CCGCGGGCTG AGAACCCGCG TTACCGGTTT AGGCGGCGGC TCCAGCTACC GGCGCCCGAC
23351	GGTGTGCGCG GCACCAGCGC GTCTTGTGAT GAGTCTTCCT CGTCCTCGGA CCACACGCGC CGTGGTCGCG CAGAACACTA CTCAGAAGGA GCAGGAGCCT
23401	CTCGATACGC CGCCTCATCC GCTTTTTTGG GGGCGCCCGG GGAGGCGGCG GAGCTATGCG GCGGAGTAGG CGAAAAAACC CCCGCGGGCC CCTCCGCCGC
23451	GCGACGGGGA CGGGGACGAC ACGTCCTCCA TGGTTGGGGG ACGTCGCGCC CGCTGCCCCT GCCCCTGCTG TGCAGGAGGT ACCAACCCCC TGCAGCGCGG
23501	GCACCGCGTC CGCGCTCGGG GGTGGTTTCG CGCTGCTCCT CTTCCCGACT CGTGGCGCAG GCGCGAGCCC CCACCAAAGC GCGACGAGGA GAAGGGCTGA
23551	GGCCATTTCC TTCTCCTATA GGCAGAAAAA GATCATGGAG TCAGTCGAGA CCGGTAAAGG AAGAGGATAT CCGTCTTTTT CTAGTACCTC AGTCAGCTCT
23601	AGAAGGACAG CCTAACCGCC CCCTCTGAGT TCGCCACCAC CGCCTCCACC TCTTCCTGTC GGATTGGCGG GGGAGACTCA AGCGGTGGTG GCGGAGGTGG
23651	CTACGGCGGT TGCGCGGATG GTGGAAGGGG CAGCTCCGTG GGGGCGAACT
23701	GGAGGAGGAA GTGATTATCG AGCAGGACCC AGGTTTTGTA AGCGAAGACG CCTCCTCCTT CACTAATAGC TCGTCCTGGG TCCAAAACAT TCGCTTCTGC

23751	ACGAGGACCG CTCAGTACCA ACAGAGGATA AAAAGCAAGA CCAGGACAAC TGCTCCTGGC GAGTCATGGT TGTCTCCTAT TTTTCGTTCT GGTCCTGTTG
23801	GCAGAGGCAA ACGAGGAACA AGTCGGGCGG GGGGACGAAA GGCATGGCGA CGTCTCCGTT TGCTCCTTGT TCAGCCCGCC CCCCTGCTTT CCGTACCGCT
23851	CTACCTAGAT GTGGGAGACG ACGTGCTGTT GAAGCATCTG CAGCGCCAGT GATGGATCTA CACCCTCTGC TGCACGACAA CTTCGTAGAC GTCGCGGTCA
23901	GCGCCATTAT CTGCGACGCG TTGCAAGAGC GCAGCGATGT GCCCCTCGCC CGCGGTAATA GACGCTGCGC AACGTTCTCG CGTCGCTACA CGGGGAGCGG
23951	ATAGCGGATG TCAGCCTTGC CTACGAACGC CACCTATTCT CACCGCGCGT TATCGCCTAC AGTCGGAACG GATGCTTGCG GTGGATAAGA GTGGCGCGCA
24001	ACCCCCAAA CGCCAAGAAA ACGGCACATG CGAGCCCAAC CCGCGCCTCA TGGGGGGTTT GCGGTTCTTT TGCCGTGTAC GCTCGGGTTG GGCGCGGAGT
24051	ACTTCTACCC CGTATTTGCC GTGCCAGAGG TGCTTGCCAC CTATCACATC TGAAGATGGG GCATAAACGG CACGGTCTCC ACGAACGGTG GATAGTGTAG
24101	TTTTCCAAA ACTGCAAGAT ACCCCTATCC TGCCGTGCCA ACCGCAGCCG AAAAAGGTTT TGACGTTCTA TGGGGATAGG ACGGCACGGT TGGCGTCGGC
24151	AGCGGACAAG CAGCTGGCCT TGCGGCAGGG CGCTGTCATA CCTGATATCG TCGCCTGTTC GTCGACCGGA ACGCCGTCCC GCGACAGTAT GGACTATAGC
24201	CCTCGCTCAA CGAAGTGCCA AAAATCTTTG AGGGTCTTGG ACGCGACGAGGGAGCGAGTT GCTTCACGGT TTTTAGAAAC TCCCAGAACC TGCGCTGCTC
24251	AAGCGCGCGG CAAACGCTCT GCAACAGGAA AACAGCGAAA ATGAAAGTCA TTCGCGCGCC GTTTGCGAGA CGTTGTCCTT TTGTCGCTTT TACTTTCAGT
24301	CTCTGGAGTG TTGGTGGAAC TCGAGGGTGA CAACGCGCGC CTAGCCGTAC GAGACCTCAC AACCACCTTG AGCTCCCACT GTTGCGCGCG GATCGGCATG
24351	TAAAACGCAG CATCGAGGTC ACCCACTTTG CCTACCCGGC ACTTAACCTA ATTTTGCGTC GTAGCTCCAG TGGGTGAAAC GGATGGGCCG TGAATTGGAT
24401	CCCCCAAGG TCATGAGCAC AGTCATGAGT GAGCTGATCG TGCGCCGTGC GGGGGGTTCC AGTACTCGTG TCAGTACTCA CTCGACTAGC ACGCGGCACG
24451	GCAGCCCCTG GAGAGGGATG CAAATTTGCA AGAACAAACA GAGGAGGGCC CGTCGGGGAC CTCTCCCTAC GTTTAAACGT TCTTGTTTGT CTCCTCCCGG
24501	TACCCGCAGT TGGCGACGAG CAGCTAGCGC GCTGGCTTCA AACGCGCGAG ATGGGCGTCA ACCGCTGCTC GTCGATCGCG CGACCGAAGT TTGCGCGCTC
24551	CCTGCCGACT TGGAGGAGCG ACGCAAACTA ATGATGGCCG CAGTGCTCGT GGACGGCTGA ACCTCCTCGC TGCGTTTGAT TACTACCGGC GTCACGAGCA

24601	TACCGTGGAG CTTGAGTGCA TGCAGCGGTT CTTTGCTGAC CCGGAGATGC ATGGCACCTC GAACTCACGT ACGTCGCCAA GAAACGACTG GGCCTCTACG
24651	AGCGCAAGCT AGAGGAAACA TTGCACTACA CCTTTCGACA GGGCTACGTA TCGCGTTCGA TCTCCTTTGT AACGTGATGT GGAAAGCTGT CCCGATGCAT
24701	CGCCAGGCCT GCAAGATCTC CAACGTGGAG CTCTGCAACC TGGTCTCCTA GCGGTCCGGA CGTTCTAGAG GTTGCACCTC GAGACGTTGG ACCAGAGGAT
24751	CCTTGGAATT TTGCACGAAA ACCGCCTTGG GCAAAACGTG CTTCATTCCA GGAACCTTAA AACGTGCTTT TGGCGGAACC CGTTTTGCAC GAAGTAAGGT
24801	CGCTCAAGGG CGAGGCGCGC CGCGACTACG TCCGCGACTG CGTTTACTTA GCGAGTTCCC GCTCCGCGC GCGCTGATGC AGGCGCTGAC GCAAATGAAT
24851	TTTCTATGCT ACACCTGGCA GACGGCCATG GGCGTTTGGC AGCAGTGCTT AAAGATACGA TGTGGACCGT CTGCCGGTAC CCGCAAACCG TCGTCACGAA
24901	GGAGGAGTGC AACCTCAAGG AGCTGCAGAA ACTGCTAAAG CAAAACTTGA CCTCCTCACG TTGGAGTTCC TCGACGTCTT TGACGATTTC GTTTTGAACT
24951	AGGACCTATG GACGGCCTTC AACGAGCGCT CCGTGGCCGC GCACCTGGCG TCCTGGATAC CTGCCGGAAG TTGCTCGCGA GGCACCGGCG CGTGGACCGC
25001	GACATCATTT TCCCCGAACG CCTGCTTAAA ACCCTGCAAC AGGGTCTGCC CTGTAGTAAA AGGGGCTTGC GGACGAATTT TGGGACGTTG TCCCAGACGG
25051	AGACTTCACC AGTCAAAGCA TGTTGCAGAA CTTTAGGAAC TTTATCCTAG TCTGAAGTGG TCAGTTTCGT ACAACGTCTT GAAATCCTTG AAATAGGATC
25101	AGCGCTCAGG AATCTTGCCC GCCACCTGCT GTGCACTTCC TAGCGACTTT TCGCGAGTCC TTAGAACGGG CGGTGGACGA CACGTGAAGG ATCGCTGAAA
25151	GTGCCCATTA AGTACCGCGA ATGCCCTCCG CCGCTTTGGG GCCACTGCTA CACGGGTAAT TCATGGCGCT TACGGGAGGC GGCGAAACCC CGGTGACGAT
25201	CCTTCTGCAG CTAGCCAACT ACCTTGCCTA CCACTCTGAC ATAATGGAAG GGAAGACGTC GATCGGTTGA TGGAACGGAT GGTGAGACTG TATTACCTTC
25251	ACGTGAGCGG TGACGGTCTA CTGGAGTGTC ACTGTCGCTG CAACCTATGC TGCACTCGCC ACTGCCAGAT GACCTCACAG TGACAGCGAC GTTGGATACG
25301	TGGGGCGTGG CGAGGGACCA AACGTTAAGC GTCGACGAAT TGCTTTCAGT
25351	TTAATAGCCA TGGAAACTCG ACGTCCCAGG GAGCGGACTG CTTTCAGGC
25401	CGGCTCCGGG GTTGAAACTC ACTCCGGGGC TGTGGACGTC GGCTTACCTT GCCGAGGCCC CAACTTTGAG TGAGGCCCCG ACACCTGCAG CCGAATGGAA

25451	CGCAAATTTG	TACCTGAGGA	CTACCACGCC	CACGAGATTA	GGTTCTACGA
	GCGTTTAAAC	ATGGACTCCT	GATGGTGCGG	GTGCTCTAAT	CCAAGATGCT
25501	AGACCAATCC	CGCCCGCCTA	ATGCGGAGCT	TACCGCCTGC	GTCATTACCC
	TCTGGTTAGG	GCGGGCGGAT	TACGCCTCGA	ATGGCGGACG	CAGTAATGGG
25551	AGGGCCACAT	TCTTGGCCAA	TTGCAAGCCA	TCAACAAAGC	CCGCCAAGAG
	TCCCGGTGTA	AGAACCGGTT	AACGTTCGGT	AGTTGTTTCG	GGCGGTTCTC
25601	TTTCTGCTAC	GAAAGGGACG	GGGGGTTTAC	TTGGACCCCC	AGTCCGGCGA
	AAAGACGATG	CTTTCCCTGC	CCCCCAAATG	AACCTGGGGG	TCAGGCCGCT
25651	GGAGCTCAAC	CCAATCCCCC	CGCCGCCGCA	GCCCTATCAG	CAGCAGCCGC
	CCTCGAGTTG	GGTTAGGGGG	GCGGCGGCGT	CGGGATAGTC	GTCGTCGGCG
25701	GGGCCCTTGC	TTCCCAGGAT	GGCACCCAAA	AAGAAGCTGC	AGCTGCCGCC
	CCCGGGAACG	AAGGGTCCTA	CCGTGGGTTT	TTCTTCGACG	TCGACGGCGG
25751	GCCACCCACG CGGTGGGTGC	GACGAGGAGG CTGCTCCTCC	AATACTGGGA TTATGACCCT	CAGTCAGGCA GTCAGTCCGT	GAGGAGGTTT
25801	TGGACGAGGA ACCTGCTCCT	GGAGGAGGAC	ATGATGGAAG TACTACCTTC	ACTGGGAGAG TGACCCTCTC	CCTAGACGAG GGATCTGCTC
25851	GAAGCTTCCG	AGGTCGAAGA	A GGTGTCAGAC	GAAACACCGT	CACCCTCGGT
	CTTCGAAGGC	TCCAGCTTCT	CCACAGTCTG	CTTTGTGGCA	GTGGGAGCCA
25901	CGCATTCCCC GCGTAAGGG	TCGCCGGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	CCCAGAAATO GGGTCTTTAG	GGCAACCGGT GCCGTTGGCCA	TCCAGCATGG A AGGTCGTACC
25951	CTACAACCTO	CGCTCCTCAG	G GCGCCGCCGG	G CACTGCCCGT	TCGCCGACCC
	GATGTTGGAG	GCGAGGAGTG	C CGCGGCGGCC	C GTGACGGGCA	A AGCGGCTGGG
26001	AACCGTAGAT	GGGACACCA(TGGAACCAGG	G GCCGGTAAGT	CCAAGCAGCC
	TTGGCATCTA	CCCTGTGGT(ACCTTGGTCC	C CGGCCATTCA	GGTTCGTCGG
26051	GCCGCCGTTA	A GCCCAAGAG	C AACAACAGCG	G CCAAGGCTAG	C CGCTCATGGC
	CGGCGGCAA	C CGGGTTCTC	G TTGTTGTCGG	C GGTTCCGATG	G GCGAGTACCG
26101	GCGGGCACA/	A GAACGCCATA	A GTTGCTTGCT	T TGCAAGACTO	TGGGGGCAAC
	CGCCCGTGT	T CTTGCGGTA	T CAACGAACG/	A ACGTTCTGAO	ACCCCCGTTG
26151	ATCTCCTTCC	G CCCGCCGCT	T TCTTCTCTA(C CATCACGGC	G TGGCCTTCCC
	TAGAGGAAG	C GGGCGGCGA	A AGAAGAGAT(G GTAGTGCCG	C ACCGGAAGGG
26201	GGCATTGTA	G GACGTAATG	A TGGCAGTAG	A GATGTCGGG	A TACTGCACCG T ATGACGTGGC
26251	GCGGCAGCG	G CAGCAACAG	C AGCGGCCAC	A CAGAAGCAA	A GGCGACCGGA
	CGCCGTCGC	C GTCGTTGTC	G TCGCCGGTG	T GTCTTCGTT	T CCGCTGGCCT

26301	TAGCAAGACT CTGACAAAGC CCAAGAAATC CACAGCGGCG GCAGCAGCAG ATCGTTCTGA GACTGTTTCG GGTTCTTTAG GTGTCGCCGC CGTCGTCGTC
26351	GAGGAGGAGC GCTGCGTCTG GCGCCCAACG AACCCGTATC GACCCGCGAG CTCCTCCTCG CGACGCAGAC CGCGGGTTGC TTGGGCATAG CTGGGCGCTC
26401	CTTAGAAACA GGATTTTTCC CACTCTGTAT GCTATATTTC AACAGAGCAG GAATCTTTGT CCTAAAAAGG GTGAGACATA CGATATAAAG TTGTCTCGTC
26451	GGGCCAAGAA CAAGAGCTGA AAATAAAAAA CAGGTCTCTG CGATCCCTCA CCCGGTTCTT GTTCTCGACT TITATTTTTT GTCCAGAGAC GCTAGGGAGT
26501	CCCGCAGCTG CCTGTATCAC AAAAGCGAAG ATCAGCTTCG GCGCACGCTG GGGCGTCGAC GGACATAGTG TTTTCGCTTC TAGTCGAAGC CGCGTGCGAC
26551	GAAGACGCGG AGGCTCTCTT CAGTAAATAC TGCGCGCTGA CTCTTAAGGA CTTCTGCGCC TCCGAGAGAA GTCATTTATG ACGCGCGACT GAGAATTCCT
26601	CTAGTTTCGC GCCCTTTCTC AAATTTAAGC GCGAAAACTA CGTCATCTCC GATCAAAGCG CGGGAAAGAG TTTAAATTCG CGCTTTTGAT GCAGTAGAGG
26651	AGCGGCCACA CCCGGCGCCA GCACCTGTTG TCAGCGCCAT TATGAGCAAG TCGCCGGTGT GGGCCGCGGT CGTGGACAAC AGTCGCGGTA ATACTCGTTC
26701	GAAATTCCCA CGCCCTACAT GTGGAGTTAC CAGCCACAAA TGGGACTTGC CTTTAAGGGT GCGGGATGTA CACCTCAATG GTCGGTGTTT ACCCTGAACG
26751	GGCTGGAGCT GCCCAAGACT ACTCAACCCG AATAAACTAC ATGAGCGCGG CCGACCTCGA CGGGTTCTGA TGAGTTGGGC TTATTTGATG TACTCGCGCC
26801	GACCCCACAT GATATCCCGG GTCAACGGAA TACGCGCCCA CCGAAACCGA CTGGGGTGTA CTATAGGGCC CAGTTGCCTT ATGCGCGGGT GGCTTTGGCT
26851	ATTCTCCTGG AACAGGCGGC TATTACCACC ACACCTCGTA ATAACCTTAA TAAGAGGACC TTGTCCGCCG ATAATGGTGG TGTGGAGCAT TATTGGAATT
26901	TCCCCGTAGT TGGCCCGCTG CCCTGGTGTA CCAGGAAAGT CCCGCTCCCA AGGGGCATCA ACCGGGCGAC GGGACCACAT GGTCCTTTCA GGGCGAGGGT
26951	CCACTGTGGT ACTTCCCAGA GACGCCCAGG CCGAAGTTCA GATGACTAAC GGTGACACCA TGAAGGGTCT CTGCGGGTCC GGCTTCAAGT CTACTGATTG
27001	TCAGGGGCGC AGCTTGCGGG CGGCTTTCGT CACAGGGTGC GGTCGCCCGG AGTCCCCGCG TCGAACGCCC GCCGAAAGCA GTGTCCCACG CCAGCGGGCC
27051	GCAGGGTATA ACTCACCTGA CAATCAGAGG GCGAGGTATT CAGCTCAACG CGTCCCATAT TGAGTGGACT GTTAGTCTCC CGCTCCATAA GTCGAGTTGC
27101	ACGAGTCGGT GAGCTCCTCG CTTGGTCTCC GTCCGGACGG GACATTTCAG TGCTCAGCCA CTCGAGGAGC GAACCAGAGG CAGGCCTGCC CTGTAAAGTC

27151	ATCGGCGGCG CCGGCCGCTC TTCATTCACG CCTCGTCAGG CAATCCTAAC TAGCCGCCGC GGCCGGCGAG AAGTAAGTGC GGAGCAGTCC GTTAGGATTG
27201	TCTGCAGACC TCGTCCTCTG AGCCGCGCTC TGGAGGCATT GGAACTCTGC AGACGTCTGG AGCAGGAGAC TCGGCGCGAG ACCTCCGTAA CCTTGAGACG
27251	AATTTATTGA GGAGTTTGTG CCATCGGTCT ACTTTAACCC CTTCTCGGGA TTAAATAACT CCTCAAACAC GGTAGCCAGA TGAAATTGGG GAAGAGCCCT
27301	CCTCCCGGCC ACTATCCGGA TCAATTTATT CCTAACTTTG ACGCGGTAAA GGAGGGCCGG TGATAGGCCT AGTTAAATAA GGATTGAAAC TGCGCCATTT
27351	GGACTCGGCG GACGGCTACG ACTGAATGTT AAGTGGAGAG GCAGAGCAAC CCTGAGCCGC CTGCCGATGC TGACTTACAA TTCACCTCTC CGTCTCGTTG
27401	TGCGCCTGAA ACACCTGGTC CACTGTCGCC GCCACAAGTG CTTTGCCCGC ACGCGGACTT TGTGGACCAG GTGACAGCGG CGGTGTTCAC GAAACGGGCG
27451	GACTCCGGTG AGTTTTGCTA CTTTGAATTG CCCGAGGATC ATATCGAGGG CTGAGGCCAC TCAAAACGAT GAAACTTAAC GGGCTCCTAG TATAGCTCCC
27501	CCCGGCGCAC GGCGTCCGGC TTACCGCCCA GGGAGAGCTT GCCCGTAGCC GGGCCGCGTG CCGCAGGCCG AATGGCGGGT CCCTCTCGAA CGGGCATCGG
27551	TGATTCGGGA GTTTACCCAG CGCCCCCTGC TAGTTGAGCG GGACAGGGGA ACTAAGCCCT CAAATGGGTC GCGGGGGACG ATCAACTCGC CCTGTCCCCT
27601	CCCTGTGTTC TCACTGTGAT TTGCAACTGT CCTAACCCTG GATTACATCA GGGACACAAG AGTGACACTA AACGTTGACA GGATTGGGAC CTAATGTAGT
27651	AGATCTTTGT TGCCATCTCT GTGCTGAGTA TAATAAATAC AGAAATTAAA TCTAGAAACA ACGGTAGAGA CACGACTCAT ATTATTTATG TCTTTAATTT
27701	ATATACTGGG GCTCCTATCG CCATCCTGTA AACGCCACCG TCTTCACCCG TATATGACCC CGAGGATAGC GGTAGGACAT TTGCGGTGGC AGAAGTGGGC
27751	CCCAAGCAAA CCAAGGCGAA CCTTACCTGG TACTTTTAAC ATCTCTCCCT GGGTTCGTTT GGTTCCGCTT GGAATGGACC ATGAAAATTG TAGAGAGGGA
27801	CTGTGATTTA CAACAGTTTC AACCCAGACG GAGTGAGTCT ACGAGAGAAC GACACTAAAT GTTGTCAAAG TTGGGTCTGC CTCACTCAGA TGCTCTCTTG
27851	CTCTCCGAGC TCAGCTACTC CATCAGAAAA AACACCACCC TCCTTACCTG GAGAGGCTCG AGTCGATGAG GTAGTCTTTT TTGTGGTGGG AGGAATGGAC
27901	CCGGGAACGT ACGAGTGCGT CACCGGCCGC TGCACCACAC CTACCGCCTG GGCCCTTGCA TGCTCACGCA GTGGCCGGCG ACGTGGTGTG GATGGCGGAC
27951	ACCGTAAACC AGACTITTC CGGACAGACC TCAATAACTC TGTTTACCAG TGGCATTTGG TCTGAAAAAG GCCTGTCTGG AGTTATTGAG ACAAATGGTC

28001	AACAGGAGGT	GAGCTTAGAA	AACCCTTAGG	GTATTAGGCC	AAAGGCGCAG
	TTGTCCTCCA	CTCGAATCTT	TTGGGAATCC	CATAATCCGG	TTTCCGCGTC
28051	CTACTGTGGG	GTTTATGAAC	AATTCAAGCA	ACTCTACGGG	CTATTCTAAT
	GATGACACCC	CAAATACTTG	TTAAGTTCGT	TGAGATGCCC	GATAAGATTA
28101	TCAGGTTTCT	CTAGAATCGG	GGTTGGGGTT	ATTCTCTGTC	TTGTGATTCT
	AGTCCAAAGA	GATCTTAGCC	CCAACCCCAA	TAAGAGACAG	AACACTAAGA
28151	CTTTATTCTT	ATACTAACGC	TTCTCTGCCT	AAGGCTCGCC	GCCTGCTGTG
	GAAATAAGAA	TATGATTGCG	AAGAGACGGA	TTCCGAGCGG	CGGACGACAC
28201	TGCACATTTG	CATTTATTGT	CAGCTTTTTA	AACGCTGGGG	TCGCCACCCA
	ACGTGTAAAC	GTAAATAACA	GTCGAAAAAT	TTGCGACCCC	AGCGGTGGGT
28251	AGATGATTAG	GTACATAATC	CTAGGTTTAC	TCACCCTTGC	GTCAGCCCAC
	TCTACTAATC	CATGTATTAG	GATCCAAATG	AGTGGGAACG	CAGTCGGGTG
28301	GGTACCACCC	AAAAGGTGGA	TTTTAAGGAG	CCAGCCTGTA	ATGTTACATT
	CCATGGTGGG	TTTTCCACCT	AAAATTCCTC	GGTCGGACAT	TACAATGTAA
28351	CGCAGCTGAA	GCTAATGAGT	GCACCACTCT	TATAAAATGC	ACCACAGAAC
	GCGTCGACTT	CGATTACTCA	CGTGGTGAGA	ATATTTTACG	TGGTGTCTTG
28401	ATGAAAAGCT	GCTTATTCGC	CACAAAAACA	AAATTGGCAA	GTATGCTGTT
	TACTTTTCGA	CGAATAAGCG	GTGTTTTTGT	TTTAACCGTT	CATACGACAA
28451	TATGCTATTT	GGCAGCCAGG	TGACACTACA	GAGTATAATO	TTACAGTTTT
	ATACGATAAA	CCGTCGGTCC	ACTGTGATGT	CTCATATTAC	AATGTCAAAA
28501	CCAGGGTAAA	AGTCATAAAA	CTTTTATGTA	TACTTTTCCA	TTTTATGAAA
	GGTCCCATTT	TCAGTATTTT	GAAAATACAT	ATGAAAAGGT	AAAATACTTT
28551	TGTGCGACAT	TACCATGTAC	ATGAGCAAAC	AGTATAAGTT	GTGGCCCCCA
	ACACGCTGTA	ATGGTACATG	TACTCGTTTG	TCATATTCAA	CACCGGGGGT
28601	CAAAATTGTG	TGGAAAACAC	TGGCACTTTC	TGCTGCACTG	CTATGCTAAT
	GTTTTAACAC	ACCTTTTGTG	ACCGTGAAAG	ACGACGTGAC	CGATACGATTA
28651	TACAGTGCTC	GCTTTGGTCT	GTACCCTACT	CTATATTAAA	TACAAAAGCA
	ATGTCACGAG	GCGAAACCAGA	CATGGGATGA	GATATAATT	TATGTTTTCGT
28701	GACGCAGCTT CTGCGTCGAA	TATTGAGGAA A ATAACTCCT	A AAGAAAATGO	CTTAATTTAG GAATTAAATG	TAAGTTACAA ATTCAATGTT
28751	AGCTAATGT(C ACCACTAACT	GCTTTACTCO	G CTGCTTGCA	A AACAAATTCA
	TCGATTACA(G TGGTGATTG/	CGAAATGAGO	C GACGAACGT	T TTGTTTAAGT
28801	AAAAGTTAG(C ATTATAATTA G TAATATTAA	A GAATAGGAT F CTTATCCTA	T TAAACCCCC A ATTTGGGGG	C GGTCATTTCC G CCAGTAAAGG

28851	TGCTCAATAC CATTCCCCTG AACAATTGAC TCTATGTGGG ATATGCTCCA ACGAGTTATG GTAAGGGGAC TTGTTAACTG AGATACACCC TATACGAGGT
28901	GCGCTACAAC CTTGAAGTCA GGCTTCCTGG ATGTCAGCAT CTGACTTTGG CGCGATGTTG GAACTTCAGT CCGAAGGACC TACAGTCGTA GACTGAAACC
28951	CCAGCACCTG TCCCGCGGAT TTGTTCCAGT CCAACTACAG CGACCCACCC GGTCGTGGAC AGGGCGCCTA AACAAGGTCA GGTTGATGTC GCTGGGTGGG
29001	TAACAGAGAT GACCAACACA ACCAACGCGG CCGCCGCTAC CGGACTTACA ATTGTCTCTA CTGGTTGTGT TGGTTGCGCC GGCGGCGATG GCCTGAATGT
29051	TCTACCACAA ATACACCCCA AGTTTCTGCC TTTGTCAATA ACTGGGATAA AGATGGTGTT TATGTGGGGT TCAAAGACGG AAACAGTTAT TGACCCTATT
29101	CTTGGGCATG TGGTGGTTCT CCATAGCGCT TATGTTTGTA TGCCTTATTA GAACCCGTAC ACCACCAAGA GGTATCGCGA ATACAAACAT ACGGAATAAT
29151	TTATGTGGCT CATCTGCTGC CTAAAGCGCA AACGCGCCCG ACCACCCATC AATACACCGA GTAGACGACG GATTTCGCGT TTGCGCGGGC TGGTGGGTAG
29201	TATAGTCCCA TCATTGTGCT ACACCCAAAC AATGATGGAA TCCATAGATT ATATCAGGGT AGTAACACGA TGTGGGTTTG TTACTACCTT AGGTATCTAA
29251	GGACGGACTG AAACACATGT TCTTTTCTCT TACAGTATGA TTAAATGAGA CCTGCCTGAC TTTGTGTACA AGAAAAGAGA ATGTCATACT AATTTACTCT
29301	CATGATTCCT CGAGTTTTTA TATTACTGAC CCTTGTTGCG CTTTTTTGTG GTACTAAGGA GCTCAAAAAT ATAATGACTG GGAACAACGC GAAAAAACAC
29351	CGTGCTCCAC ATTGGCTGCG GTTTCTCACA TCGAAGTAGA CTGCATTCCA GCACGAGGTG TAACCGACGC CAAAGAGTGT AGCTTCATCT GACGTAAGGT
29401	GCCTTCACAG TCTATTTGCT TTACGGATTT GTCACCCTCA CGCTCATCTG CGGAAGTGTC AGATAAACGA AATGCCTAAA CAGTGGGAGT GCGAGTAGAC
29451	CAGCCTCATC ACTGTGGTCA TCGCCTTTAT CCAGTGCATT GACTGGGTCT GTCGGAGTAG TGACACCAGT AGCGGAAATA GGTCACGTAA CTGACCCAGA
29501	GTGTGCGCTT TGCATATCTC AGACACCATC CCCAGTACAG GGACAGGACT CACACGCGAA ACGTATAGAG TCTGTGGTAG GGGTCATGTC CCTGTCCTGA
29551	ATAGCTGAGC TTCTTAGAAT TCTTTAATTA TGAAATTTAC TGTGACTTTT TATCGACTCG AAGAATCTTA AGAAATTAAT ACTTTAAATG ACACTGAAAA
29601	CTGCTGATTA TTTGCACCCT ATCTGCGTTT TGTTCCCCGA CCTCCAAGCC GACGACTAAT AAACGTGGGA TAGACGCAAA ACAAGGGGCT GGAGGTTCGG
29651	TCAAAGACAT ATATCATGCA GATTCACTCG TATATGGAAT ATTCCAAGTT AGTTTCTGTA TATAGTACGT CTAAGTGAGC ATATACCTTA TAAGGTTCAA

29701	GCTACAATGA AAAAAGCGAT CTTTCCGAAG CCTGGTTATA TGCAATCATC CGATGTTACT TTTTTCGCTA GAAAGGCTTC GGACCAATAT ACGTTAGTAG
29751	TCTGTTATGG TGTTCTGCAG TACCATCTTA GCCCTAGCTA TATATCCCTA AGACAATACC ACAAGACGTC ATGGTAGAAT CGGGATCGAT ATATAGGGAT
29801	CCTTGACATT GGCTGGAACG CAATAGATGC CATGAACCAC CCAACTTTCC GGAACTGTAA CCGACCTTGC GTTATCTACG GTACTTGGTG GGTTGAAAGG
29851	CCGCGCCCGC TATGCTTCCA CTGCAACAAG TTGTTGCCGG CGGCTTTGTC GGCGCGGGCG ATACGAAGGT GACGTTGTTC AACAACGGCC GCCGAAACAG
29901	CCAGCCAATC AGCCTCGCCC ACCTTCTCCC ACCCCCACTG AAATCAGCTA GGTCGGTTAG TCGGAGCGGG TGGAAGAGGG TGGGGGTGAC TTTAGTCGAT
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30101	GCAAAAGGGG TATCTTTTGT CTCGTAAAGC AGGCCAAAGT CACCTACGAC CGTTTTCCCC ATAGAAAACA GAGCATTTCG TCCGGTTTCA GTGGATGCTG
30151	AGTAATACCA CCGGACACCG CCTTAGCTAC AAGTTGCCAA CCAAGCGTCA TCATTATGGT GGCCTGTGGC GGAATCGATG TTCAACGGTT GGTTCGCAGT
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30251	CGGTAGAAAC CGAAGGCTGC ATTCACTCAC CTTGTCAAGG ACCTGAGGAT GCCATCTTTG GCTTCCGACG TAAGTGAGTG GAACAGTTCC TGGACTCCTA
30301	CTCTGCACCC TTATTAAGAC CCTGTGCGGT CTCAAAGATC TTATTCCCTT GAGACGTGGG AATAATTCTG GGACACGCCA GAGTTTCTAG AATAAGGGAA
30351	TAACTAATAA AAAAAAATAA TAAAGCATCA CTTACTTAAA ATCAGTTAGC ATTGATTATT TTTTTTTATT ATTTCGTAGT GAATGAATTT TAGTCAATCG
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30451	CTGGTATTGC AGCTTCCTCC TGGCTGCAAA CTTTCTCCAC AATCTAAATG GACCATAACG TCGAAGGAGG ACCGACGTTT GAAAGAGGTG TTAGATTTAC
30501	GAATGTCAGT TTCCTCCTGT TCCTGTCCAT CCGCACCCAC TATCTTCATG CTTACAGTCA AAGGAGGACA AGGACAGGTA GGCGTGGGTG ATAGAAGTAC

30551	TTGTTGCAGA TO	GAAGCGCGC /	AAGACCGTCT TTCTGGCAGA	GAAGATACCT CTTCTATGGA	TCAACCCCGT AGTTGGGGCA
30601	GTATCCATAT GATAGGTATA C	ACACGGAAA TGTGCCTTT	CCGGTCCTCC GGCCAGGAGG	AACTGTGCCT TTGACACGGA	TTTCTTACTC AAAGAATGAG
30651	CTCCCTTTGT A	TCCCCCAAT AGGGGGTTA	GGGTTTCAAG CCCAAAGTTC	AGAGTCCCCC TCTCAGGGGG	TGGGGTACTC ACCCCATGAG
30701	TCTTTGCGCC T	ATCCGAACC	TCTAGTTACC	TCCAATGGCA	TGCTTGCGCT
	AGAAACGCGG A	TAGGCTTGG	AGATCAATGG	AGGTTACCGT	ACGAACGCGA
30751	CAAAATGGGC A	ACGGCCTCT	CTCTGGACGA	GGCCGGCAAC	CTTACCTCCC
	GTTTTACCCG T	TGCCGGAGA	GAGACCTGCT	CCGGCCGTTG	GAATGGAGGG
30801	AAAATGTAAC C	ACTGTGAGC TGACACTCG	CCACCTCTCA GGTGGAGAGT	AAAAAACCAA TTTTTTGGTT	GTCAAACATA CAGTTTGTAT
30851	AACCTGGAAA T	TATCTGCACC	CCTCACAGTT	ACCTCAGAAG	CCCTAACTGT
	TTGGACCTTT A	ATAGACGTGG	GGAGTGTCAA	TGGAGTCTTC	GGGATTGACA
30901	GGCTGCCGCC GCCGACGGCGG C	GCACCTCTAA CGTGGAGATT	TGGTCGCGGG ACCAGCGCCC	CAACACACTC GTTGTGTGAG	ACCATGCAAT TGGTACGTTA
30951	CACAGGCCCC G	CTAACCGTG	CACGACTCCA	AACTTAGCAT	TGCCACCCAA
	GTGTCCGGGG G	CGATTGGCAC	GTGCTGAGGT	TTGAATCGTA	ACGGTGGGTT
31001	GGACCCCTCA (CAGTGTCAGA	AGGAAAGCTA	GCCCTGCAAA	CATCAGGCCC
	CCTGGGGAGT (GTCACAGTCT	TCCTTTCGAT	CGGGACGTTT	GTAGTCCGGG
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31101	TAACTACTGC (ATTGATGACG (CACTGGTAGC GTGACCATCG	TTGGGCATTG AACCCGTAAC	ACTTGAAAGA TGAACTTTCT	GCCCATTTAT
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	TGTGTTTTAC (CTTTTGATCC	TGATTTCATG	CCCCGAGGAA	ACGTACATTG
31201	AGACGACCTA	AACACTTTGA	CCGTAGCAAC	TGGTCCAGGT	GTGACTATTA
	TCTGCTGGAT	TTGTGAAACT	GGCATCGTTG	ACCAGGTCCA	CACTGATAAT
31251	ATAATACTTC	CTTGCAAACT	AAAGTTACTG	GAGCCTTGGG	TTTTGATTCA
	TATTATGAAG	GAACGTTTGA	TTTCAATGAC	CTCGGAACCC	AAAACTAAGT
31301	GTTCCGTTAT	ACGTTGAATT	ACATCGTCCT	CCTGATICC	TTGATTCTCA AACTAAGAGT
31351	AAACAGACGC	CTTATACTTG	ATGTTAGTTA	TCCGTTTGAT	GCTCAAAACC
	TTTGTCTGCG	GAATATGAAC	TACAATCAAT	AGGCAAACTA	A CGAGTTTTGG

31401	AACTAAATCT AAGACTAGGA CAGGGCCCTC TTTTTATAAA CTCAGCCCAC TTGATTTAGA TTCTGATCCT GTCCCGGGAG AAAAATATTT GAGTCGGGTG
31451	AACTTGGATA TTAACTACAA CAAAGGCCTT TACTTGTTTA CAGCTTCAAA TTGAACCTAT AATTGATGTT GTTTCCGGAA ATGAACAAAT GTCGAAGTTT
31501	CAATTCCAAA AAGCTTGAGG TTAACCTAAG CACTGCCAAG GGGTTGATGT GTTAAGGTTT TTCGAACTCC AATTGGATTC GTGACGGTTC CCCAACTACA
31551	TTGACGCTAC AGCCATAGCC ATTAATGCAG GAGATGGGCT TGAATTTGGT AACTGCGATG TCGGTATCGG TAATTACGTC CTCTACCCGA ACTTAAACCA
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31901	ATATCTGGAA CAGTTCAAAG TGCTCATCTT ATTATAAGAT TTGACGAAAA TATAGACCTT GTCAAGTTTC ACGAGTAGAA TAATATTCTA AACTGCTTTT
31951	TGGAGTGCTA CTAAACAATT CCTTCCTGGA CCCAGAATAT TGGAACTTTA ACCTCACGAT GATTTGTTAA GGAAGGACCT GGGTCTTATA ACCTTGAAAT
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32151	GTGATTGGTA ATGTGATTTG CCATGTGTCC TITGTCCTCT GTGTTGAGGT
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32251	TAATGAAATA TTTGCCACAT CCTCTTACAC TTTTTCATAC ATTGCCCAAG ATTACTTTAT AAACGGTGTA GGAGAATGTG AAAAAGTATG TAACGGGTTC
32301	AATAAAGAAT CGTTTGTGTT ATGTTTCAAC GTGTTTATTT TTCAATTGCA TTATTTCTTA GCAAACACAA TACAAAGTTG CACAAATAAA AAGTTAACGT
32351	GAAAATTTCA AGTCATTTTT CATTCAGTAG TATAGCCCCA CCACCACATA CTTTTAAAGT TCAGTAAAAA GTAAGTCATC ATATCGGGGT GGTGGTGTAT
32401	GCTTATACAG ATCACCGTAC CTTAATCAAA CTCACAGAAC CCTAGTATTC CGAATATGTC TAGTGGCATG GAATTAGTTT GAGTGTCTTG GGATCATAAG
32451	AACCTGCCAC CTCCCTCCCA ACACACAGAG TACACAGTCC TTTCTCCCCG TTGGACGGTG GAGGGAGGGT TGTGTGTCTC ATGTGTCAGG AAAGAGGGGC
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32551	TTATATTCCA CACGGTTTCC TGTCGAGCCA AACGCTCATC AGTGATATTA AATATAAGGT GTGCCAAAGG ACAGCTCGGT TTGCGAGTAG TCACTATAAT
32601	ATAAACTCCC CGGGCAGCTC ACTTAAGTTC ATGTCGCTGT CCAGCTGCTG TATTTGAGGG GCCCGTCGAG TGAATTCAAG TACAGCGACA GGTCGACGAC
32651	AGCCACAGGC TGCTGTCCAA CTTGCGGTTG CTTAACGGGC GGCGAAGGAG TCGGTGTCCG ACGACAGGTT GAACGCCAAC GAATTGCCCG CCGCTTCCTC
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32751	CGGTGGTGCT GCAGCAGCGC GCGAATAAAC TGCTGCCGCC GCCGCTCCGT GCCACCACGA CGTCGTCGCG CGCTTATTTG ACGACGGCGG CGGCGAGGCA
32801	CCTGCAGGAA TACAACATGG CAGTGGTCTC CTCAGCGATG ATTCGCACCG GGACGTCCTT ATGTTGTACC GTCACCAGAG GAGTCGCTAC TAAGCGTGGC
32851	CCCGCAGCAT AAGGCGCCTT GTCCTCCGGG CACAGCAGCG CACCCTGATC GGGCGTCGTA TTCCGCGGAA CAGGAGGCCC GTGTCGTCGC GTGGGACTAG
32901	TCACTTAAAT CAGCACAGTA ACTGCAGCAC AGCACCACAA TATTGTTCAA AGTGAATTTA GTCGTGTCAT TGACGTCGTG TCGTGGTGTT ATAACAAGTT
32951	AATCCCACAG TGCAAGGCGC TGTATCCAAA GCTCATGGCG GGGACCACAG TTAGGGTGTC ACGTTCCGCG ACATAGGTTT CGAGTACCGC CCCTGGTGTC
33001	AACCCACGTG GCCATCATAC CACAAGCGCA GGTAGATTAA GTGGCGACCC TTGGGTGCAC CGGTAGTATG GTGTTCGCGT CCATCTAATT CACCGCTGGG
33051	CTCATAAACA CGCTGGACAT AAACATTACC TCTTTTGGCA TGTTGTAATT GAGTATTTGT GCGACCTGTA TTTGTAATGG AGAAAACCGT ACAACATTAA

33101	CACCACCTCC CGGTACCATA TAAACCTCTG ATTAAACATG GCGCCATCCA GTGGTGGAGG GCCATGGTAT ATTTGGAGAC TAATTTGTAC CGCGGTAGGT
33151	CCACCATCCT AAACCAGCTG GCCAAAACCT GCCCGCCGGC TATACACTGC GGTGGTAGGA TTTGGTCGAC CGGTTTTGGA CGGGCGGCCG ATATGTGACG
33201	AGGGAACCGG GACTGGAACA ATGACAGTGG AGAGCCCAGG ACTCGTAACC TCCCTTGGCC CTGACCTTGT TACTGTCACC TCTCGGGTCC TGAGCATTGG
33251	ATGGATCATC ATGCTCGTCA TGATATCAAT GTTGGCACAA CACAGGCACA TACCTAGTAG TACGAGCAGT ACTATAGTTA CAACCGTGTT GTGTCCGTGT
33301	CGTGCATACA CTTCCTCAGG ATTACAAGCT CCTCCCGCGT TAGAACCATA GCACGTATGT GAAGGAGTCC TAATGTTCGA GGAGGGCGCA ATCTTGGTAT
33351	TCCCAGGGAA CAACCCATTC CTGAATCAGC GTAAATCCCA CACTGCAGGG AGGGTCCCTT GTTGGGTAAG GACTTAGTCG CATTTAGGGT GTGACGTCCC
33401	AAGACCTCGC ACGTAACTCA CGTTGTGCAT TGTCAAAGTG TTACATTCGG TTCTGGAGCG TGCATTGAGT GCAACACGTA ACAGTTTCAC AATGTAAGCC
33451	GCAGCAGCGG ATGATCCTCC AGTATGGTAG CGCGGGTTTC TGTCTCAAAA CGTCGTCGCC TACTAGGAGG TCATACCATC GCGCCCAAAG ACAGAGTTTT
33501	GGAGGTAGAC GATCCCTACT GTACGGAGTG CGCCGAGACA ACCGAGATCG CCTCCATCTG CTAGGGATGA CATGCCTCAC GCGGCTCTGT TGGCTCTAGC
33551	TGTTGGTCGT AGTGTCATGC CAAATGGAAC GCCGGACGTA GTCATATTTC ACAACCAGCA TCACAGTACG GTTTACCTTG CGGCCTGCAT CAGTATAAAG
33601	CTGAAGCAAA ACCAGGTGCG GGCGTGACAA ACAGATCTGC GTCTCCGGTC GACTTCGTTT TGGTCCACGC CCGCACTGTT TGTCTAGACG CAGAGGCCAG
33651	TCGCCGCTTA GATCGCTCTG TGTAGTAGTT GTAGTATATC CACTCTCTCA AGCGGCGAAT CTAGCGAGAC ACATCATCAA CATCATATAG GTGAGAGAGT
33701	AAGCATCCAG GCGCCCCCTG GCTTCGGGTT CTATGTAAAC TCCTTCATGC TTCGTAGGTC CGCGGGGGAC CGAAGCCCAA GATACATTTG AGGAAGTACG
33751	GCCGCTGCCC TGATAACATC CACCACCGCA GAATAAGCCA CACCCAGCCA CGGCGACGGG ACTATTGTAG GTGGTGGCGT CTTATTCGGT GTGGGTCGGT
33801	ACCTACACAT TCGTTCTGCG AGTCACACAC GGGAGGAGCG GGAAGAGCTG TGGATGTGTA AGCAAGACGC TCAGTGTGTG CCCTCCTCGC CCTTCTCGAC
33851	CTTCTTGGTA CAAAAAAAA AATAAGGTTT TCTAATAGGT TTTGGAGTT
33901	ATGAAGATCT ATTAAGTGAA CGCGCTCCCC TCCGGTGGCG TGGTCAAACT TACTTCTAGA TAATTCACTT GCGCGAGGGG AGGCCACCGC ACCAGTTTGA

33951	CTACAGCCAA AGAAC GATGTCGGTT TCTTG	AGATA A	ATGGCATTTG FACCGTAAAC	TAAGATGTTG ATTCTACAAC	CACAATGGCT GTGTTACCGA
34001	TCCAAAAGGC AAACG	GCCCT (CACGTCCAAG GTGCAGGTTC	TGGACGTAAA ACCTGCATTT	GGCTAAACCC CCGATTTGGG
34051	TTCAGGGTGA ATCTC	CTCTA GAGAT	TAAACATTCC ATTTGTAAGG	AGCACCTTCA TCGTGGAAGT	ACCATGCCCA TGGTACGGGT
34101	AATAATTCTC ATCTC	CGCCAC (CCGGTG (CTTCTCAATA GAAGAGTTAT	TATCTCTAAG ATAGAGATTC	CAAATCCCGA GTTTAGGGCT
34151	ATATTAAGTC CGGCC	CATTGT A	AAAAATCTGC TTTTTAGACG	TCCAGAGCGC AGGTCTCGCG	CCTCCACCTT GGAGGTGGAA
34201	CAGCCTCAAG CAGCCGTCGGAGTTC GTCGG	GAATCA CTTAGT	TGATTGCAAA ACTAACGTTT	AATTCAGGTT TTAAGTCCAA	CCTCACAGAC GGAGTGTCTG
34251	CTGTATAAGA TTCA GACATATTCT AAGT	AAAGCG TTTCGC	GAACATTAAC CTTGTAATTG	AAAAATACCG TTTTTATGGC	CGATCCCGTA GCTAGGGCAT
34301	GGTCCCTTCG CAGG CCAGGGAAGC GTCC	GCCAGC CGGTCG	TGAACATAAT ACTTGTATTA	CGTGCAGGTC GCACGTCCAG	TGCACGGACC ACGTGCCTGG
34351	AGCGCGGCCA CTTC TCGCGCCGGT GAAG	CCCGCC GGGCGG	AGGAACCATG TCCTTGGTAC	ACAAAAGAAC TGTTTTCTTG	CCACACTGAT GGTGTGACTA
34401	TATGACACGC ATAC	TCGGAG AGCCTC	CTATGCTAAC GATACGATTG	CAGCGTAGCC GTCGCATCGG	CCGATGTAAG GGCTACATTC
34451	CTTGTTGCAT GGGC GAACAACGTA CCCG	GGCGAT CCGCTA	ATAAAATGCA TATTTTACGT	AGGTGCTGCT TCCACGACGA	CAAAAAATCA GTTTTTTAGT
34501	GGCAAAGCCT CGCG CCGTTTCGGA GCGC	CAAAAA GTTTTT	AGAAAGCACA TCTTTCGTGT	TCGTAGTCAT AGCATCAGTA	GCTCATGCAG CGAGTACGTC
34551	ATAAAGGCAG GTAA TATTTCCGTC CATT	AGCTCCG CGAGGC	GAACCACCAC CTTGGTGGTG	AGAAAAAGAC TCTTTTTCTC	ACCATTTTC TGGTAAAAAG
34601	AGAGTTTGTA CAGA	ACGCCCA	AAGACGTAT	I IGIGITTA	HIAHGIH
34651	TTTTGTAAAT TTG	FAATCTT	CGGACAGAA	GIIGICCIII	IIIGIIGGGAA
34701	TATTCGTATT CTG	CCTGATG	CCGGTACGG	CGCACTGGC	4 IIIIIIIIIII
34751	GTCACCGTGA TTA CAGTGGCACT AAT	AAAAGCA TTTTCGT	CCACCGACA GGTGGCTGT	G CTCCTCGGT(C GAGGAGCCA	C ATGTCCGGAG G TACAGGCCTC

34801	TCATAATGTA AGACTCGGTA AACACATCAG GTTGATTCAC ATCGGTCAGT AGTATTACAT TCTGAGCCAT TTGTGTAGTC CAACTAAGTG TAGCCAGTCA
34851	GCTAAAAAGC GACCGAAATA GCCCGGGGGA ATACATACCC GCAGGCGTAG CGATTTTCG CTGGCTTTAT CGGGCCCCCT TATGTATGGG CGTCCGCATC
34901	AGACAACATT ACAGCCCCCA TAGGAGGTAT AACAAAATTA ATAGGAGAGA TCTGTTGTAA TGTCGGGGGT ATCCTCCATA TTGTTTTAAT TATCCTCTCT
34951	AAAACACATA AACACCTGAA AAACCCTCCT GCCTAGGCAA AATAGCACCC TTTTGTGTAT TTGTGGACTT TTTGGGAGGA CGGATCCGTT TTATCGTGGG
35001	TCCCGCTCCA GAACAACATA CAGCGCTTCC ACAGCGGCAG CCATAACAGT AGGGCGAGGT CTTGTTGTAT GTCGCGAAGG TGTCGCCGTC GGTATTGTCA
35051	CAGCCTTACC AGTAAAAAAG AAAACCTATT AAAAAAAACAC CACTCGACAC GTCGGAATGG TCATTTTTC TTTTGGATAA TTTTTTTGTG GTGAGCTGTG
35101	GGCACCAGCT CAATCAGTCA CAGTGTAAAA AAGGGCCAAG TGCAGAGCGA CCGTGGTCGA GTTAGTCAGT GTCACATTTT TTCCCGGTTC ACGTCTCGCT
35151	GTATATATAG GACTAAAAAA TGACGTAACG GTTAAAGTCC ACAAAAAACA CATATATATC CTGATTTTTT ACTGCATTGC CAATTTCAGG TGTTTTTTGT
35201	CCCAGAAAAC CGCACGCGAA CCTACGCCCA GAAACGAAAG CCAAAAAACC GGGTCTTTTG GCGTGCGCTT GGATGCGGGT CTTTGCTTTC GGTTTTTTGG
35251	CACAACTTCC TCAAATCGTC ACTTCCGTTT TCCCACGTTA CGTCACTTCC GTGTTGAAGG AGTTTAGCAG TGAAGGCAAA AGGGTGCAAT GCAGTGAAGG
35301	CATTITAAGA AAACTACAAT TCCCAACACA TACAAGTTAC TCCGCCCTAA GTAAAATTCT TTTGATGTTA AGGGTTGTGT ATGTTCAATG AGGCGGGATT
35351	AACCTACGTC ACCCGCCCG TTCCCACGCC CCGCGCCACG TCACAAACTC TTGGATGCAG TGGGCGGGC AAGGGTGCGG GGCGCGGTGC AGTGTTTGAG
35401	CACCCCTCA TTATCATATT GGCTTCAATC CAAAATAAGG TATATTATTG GTGGGGGAGT AATAGTATAA CCGAAGTTAG GTTTTATTCC ATATAATAAC
	PacI
35451	ATGATGTTAA TTAAGAATTC GGATCTGCGA CGCGAGGCTG GATGGCCTTC TACTACAATT AATTCTTAAG CCTAGACGCT GCGCTCCGAC CTACCGGAAG
35501	CCCATTATGA TTCTTCTCGC TTCCGGCGGC ATCGGGATGC CCGCGTTGCA GGGTAATACT AAGAAGAGCG AAGGCCGCCG TAGCCCTACG GGCGCAACGT
35551	GGCCATGCTG TCCAGGCAGG TAGATGACGA CCATCAGGGA CAGCTTCAAG CCGGTACGAC AGGTCCGTCC ATCTACTGCT GGTAGTCCCT GTCGAAGTTC

35601	GCCAGCAAAA	GGCCAGGAAC	CGTAAAAAGG	CCGCGTTGCT	GGCGTTTTTC
	CGGTCGTTTT	CCGGTCCTTG	GCATTTTTCC	GGCGCAACGA	CCGCAAAAAG
35651	CATAGGCTCC	GCCCCCCTGA	CGAGCATCAC	AAAAATCGAC	GCTCAAGTCA
	GTATCCGAGG	CGGGGGGACT	GCTCGTAGTG	TTTTTAGCTG	CGAGTTCAGT
35701	GAGGTGGCGA	AACCCGACAG	GACTATAAAG	ATACCAGGCG	TTTCCCCCTG
	CTCCACCGCT	TTGGGCTGTC	CTGATATTTC	TATGGTCCGC	AAAGGGGGAC
35751	GAAGCTCCCT	CGTGCGCTCT	CCTGTTCCGA	CCCTGCCGCT	TACCGGATAC
	CTTCGAGGGA	GCACGCGAGA	GGACAAGGCT	GGGACGGCGA	ATGGCCTATG
35801	CTGTCCGCCT	TTCTCCCTTC	GGGAAGCGTG	GCGCTTTCTC	ATAGCTCACG
	GACAGGCGGA	AAGAGGGAAG	CCCTTCGCAC	CGCGAAAGAG	TATCGAGTGC
35851	CTGTAGGTAT	CTCAGTTCGG	TGTAGGTCGT	TCGCTCCAAG	CTGGGCTGTG
	GACATCCATA	GAGTCAAGCC	ACATCCAGCA	AGCGAGGTTC	GACCCGACAC
35901	TGCACGAACC	CCCCGTTCAG	CCCGACCGCT	GCGCCTTATC	CGGTAACTAT
	ACGTGCTTGG	GGGGCAAGTC	GGGCTGGCGA	CGCGGAATAG	GCCATTGATA
35951	CGTCTTGAGT	CCAACCCGGT	AAGACACGAC	TTATCGCCAC	TGGCAGCAGC
	GCAGAACTCA	GGTTGGGCCA	TTCTGTGCTG	AATAGCGGTG	ACCGTCGTCG
36001	CACTGGTAAC	AGGATTAGCA	GAGCGAGGTA	TGTAGGCGGT	GCTACAGAGT
	GTGACCATTG	TCCTAATCGT	CTCGCTCCAT	ACATCCGCCA	CGATGTCTCA
36051	TCTTGAAGTG	GTGGCCTAAC	TACGGCTACA	CTAGAAGGAC	AGTATTTGGT
	AGAACTTCAC	CACCGGATTG	ATGCCGATGT	GATCTTCCTG	TCATAAACCA
36101	ATCTGCGCTC	TGCTGAAGCC	AGTTACCTTC	GGAAAAAGAG	TTGGTAGCTC
	TAGACGCGAG	ACGACTTCGG	TCAATGGAAG	CCTTTTTCTC	AACCATCGAG
36151	TTGATCCGGC AACTAGGCCG	AAACAAACCA	CCGCTGGTAG GGCGACCATC	CGGTGGTTTT GCCACCAAAA	TTTGTTTGCA AAACAAACGT
36201	AGCAGCAGAT	TACGCGCAGA	AAAAAAGGAT	CTCAAGAAGA	TCCTTTGATC
	TCGTCGTCTA	ATGCGCGTCT	TTTTTTCCTA	GAGTTCTTCT	AGGAAACTAG
3 6251	TTTTCTACGO	GGTCTGACGC	TCAGTGGAAC	GAAAACTCAC	C GTTAAGGGAT
	AAAAGATGCO	CCAGACTGCG	AGTCACCTTG	CTTTTGAGTC	CAATTCCCTA
36301	TTTGGTCATO AAACCAGTAO	AGATTATCAA TCTAATAGTT	A AAAGGATCTT	CACCTAGATO GTGGATCTAG	CTTTTAAATC GAAAATTTAG
36351	AATCTAAAGTTAAGTTTC/	T ATATATGAGT	F AAACTTGGT(A TTTGAACCA(TGACAGTTAG ACTGTCAATG	C CAATGCTTAA G GTTACGAATT
36401	TCAGTGAGGG	ACCTATCTCA	A GCGATCTGTO	TATTTCGTT(C ATCCATAGTT
	AGTCACTCC	G TGGATAGAG	T CGCTAGACAO	ATAAAGCAA	G TAGGTATCAA

FIG.9A-43

36451	GCCTGACTCC	CCGTCGTGTA	GATAACTACG	ATACGGGAGG	GCTTACCATC
	CGGACTGAGG	GGCAGCACAT	CTATTGATGC	TATGCCCTCC	CGAATGGTAG
36501	TGGCCCCAGT	GCTGCAATGA	TACCGCGAGA	CCCACGCTCA	CCGGCTCCAG
	ACCGGGGTCA	CGACGTTACT	ATGGCGCTCT	GGGTGCGAGT	GGCCGAGGTC
36551	ATTTATCAGC	AATAAACCAG	CCAGCCGGAA	GGGCCGAGCG	CAGAAGTGGT
	TAAATAGTCG	TTATTTGGTC	GGTCGGCCTT	CCCGGCTCGC	GTCTTCACCA
36601	CCTGCAACTT	TATCCGCCTC	CATCCAGTCT	ATTAATTGTT	GCCGGGAAGC
	GGACGTTGAA	ATAGGCGGAG	GTAGGTCAGA	TAATTAACAA	CGGCCCTTCG
36651	TAGAGTAAGT	AGTTCGCCAG	TTAATAGTTT	GCGCAACGTT	GTTGCCATTG
	ATCTCATTCA	TCAAGCGGTC	AATTATCAAA	CGCGTTGCAA	CAACGGTAAC
36701	CTACAGGCAT	CGTGGTGTCA	CGCTCGTCGT	TTGGTATGGC	TTCATTCAGC
	GATGTCCGTA	GCACCACAGT	GCGAGCAGCA	AACCATACCG	AAGTAAGTCG
36751	TCCGGTTCCC	AACGATCAAG	GCGAGTTACA	TGATCCCCCA	TGTTGTGCAA
	AGGCCAAGGG	TTGCTAGTTC	CGCTCAATGT	ACTAGGGGGT	ACAACACGTT
36801	AAAAGCGGTT	AGCTCCTTCG	GTCCTCCGAT	CGTTGTCAGA	AGTAAGTTGG
	TTTTCGCCAA	TCGAGGAAGC	CAGGAGGCTA	GCAACAGTCT	TCATTCAACC
36851	CCGCAGTGTT	ATCACTCATG	GTTATGGCAG	CACTGCATAA	TTCTCTTACT
	GGCGTCACAA	TAGTGAGTAC	CAATACCGTC	GTGACGTATT	AAGAGAATGA
36901	GTCATGCCAT	CCGTAAGATG	CTTTTCTGTG	ACTGGTGAGT	ACTCAACCAA
	CAGTACGGTA	GGCATTCTAC	GAAAAGACAC	TGACCACTCA	TGAGTTGGTT
36951	GTCATTCTGA	GAATAGTGTA	TGCGGCGACC	GAGTTGCTCT	TGCCCGGCGT
	CAGTAAGACT	CTTATCACAT	ACGCCGCTGG	CTCAACGAGA	ACGGGCCGCA
37001	CAACACGGGA	TAATACCGCG	CCACATAGCA	GAACTTTAAA	AGTGCTCATC
	GTTGTGCCCT	ATTATGGCGC	GGTGTATCGT	CTTGAAATTT	TCACGAGTAG
37051	ATTGGAAAAC	GTTCTTCGGG	G GCGAAAACTC	TCAAGGATCT	TACCGCTGTT
	TAACCTTTTG	GCAAGAAGCCC	CGCTTTTGAG	AGTTCCTAGA	ATGGCGACAA
37101	GAGATCCAGT	TCGATGTAAC	CCACTCGTGC	ACCCAACTGA	TCTTCAGCAT
	CTCTAGGTCA	A AGCTACATTC	GGTGAGCACG	TGGGTTGACT	AGAAGTCGTA
37151	CTTTTACTT GAAAATGAAA	CACCAGCGTTA GTGGTCGCAA	T TCTGGGTGAG A AGACCCACTG	G CAAAAACAGG C GTTTTTGTCC	AAGGCAAAAT TTCCGTTTTA
37201	CGGCGTTTT	T TCCCTTATT(CCGCTGTGCC	CHIACAACT	A TACTCATACT F ATGAGTATGA
37251	CTTCCTTTT	CAATATTAT	T GAAGCATTTA	A TCAGGGTTAT	TGTCTCATGA
	GAAGGAAAA	A GTTATAATA	A CTTCGTAAA	I AGTCCCAATA	A ACAGAGTACT

37301	GCGGATACAT CGCCTATGTA	TAAACTTACA	TAAATCTTTT	TATTTGTTTA	TCCCCAAGGC
37351	CGCACATTTC	CCCGAAAAGT	GCCACCTGAC	GTCTAAGAAA	CCATTATTAT
	GCGTGTAAAG	GGGCTTTTCA	CGGTGGACTG	CAGATTCTTT	GGTAATAATA
37401	CATGACATTA	ACCTATAAAA	ATAGGCGTAT	CACGAGGCCC	TTTCGTCTTC
	GTACTGTAAT	TGGATATTIT	TATCCGCATA	GTGCTCCGGG	AAAGCAGAAG
37451	AAGAATTGGA TTCTTAACCT	TCCGAATTCT AGGCTTAAGA	TAAT ATTA		

FIG.9A-45

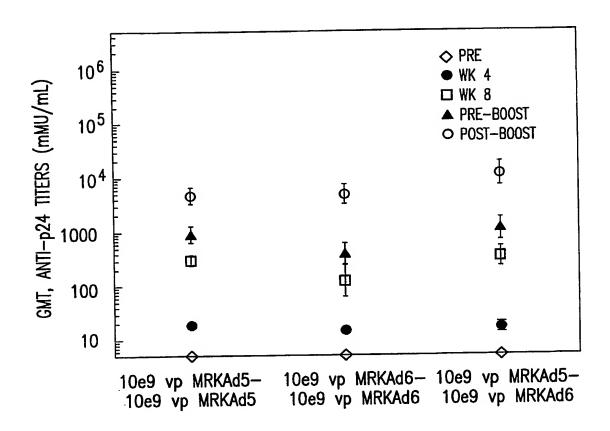


FIG.10

					TO 1 T 1 1 T O 1 O	COCCTCCACT
1	CATCATCAAT	AATATACCTT	ATTTTGGATT	GAAGCCAATA	TGATAATGAG	GGGGTGGAGT
61	TTCTCACCTC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	TGGGAACGGG	GCGGGTGACG	AGIAGIGIG	GCGGAAGTGT
121	GATGTTGTAA	GTGTGGCGGA	ACACATGTAA	GCGCCGGAIG	I GG I AAAAG I	GACGIIIIIG
101	CTCTCCCCCC	GTGTACACGG	GAAGTGACAA	TTTTCGCGCG	GIIIIAGGCG	GAIGHIGHAG
2/1	TAAATTTGGG	CGTAACCAAG	TAATATTTGG	CCATTTTCGC	GGGAAAACTG	AATAAGAGGA
201	ΛΩΤΩΛΛΛΤΩΤ	CAATAATTCT	GTGTTACTCA	TAGCGCGTAA	IAIIIGICIA	GGGCCGCGG
261	CACTTTGACC	GTTTACGTGG	AGACTCGCCC	AGGIGILLE	CICAGGIGII	1166666116
121	CCCCTCAAAG	TTGGCGTTTT	ATTATTATAG	TCAGCTGACG	CGCAGIGIAI	ITATACCCGG
121	TCACTTCCTC	AAGAGGCCAC	TCTTGAGTGC	CAGCGAGTAG	AGILLICIC	1 CCGAGCCGC
5/11	TCCGACACCG	GGACTGAAAA	TGAGACATAT	TATCIGCCAC	GGAGGIGITA	LLACCGAAGA
601	AATGGCCGCC	AGTCTTTTGG	ACCAGCTGAT	CGAAGAGGTA	CIGGUIGAIA	ATCTTCCACC
661	TCCTAGCCAT	TTTGAACCAC	CTACCCTTCA	CGAACTGTAT	GATTTAGACG	IGALGGLLLL
721	CGAAGATCCC	AACGAGGAGG	CGGTTTCGCA	GATTTTTCCC	GAGTCTGTAA	IGIIGGCGGI
701	CCACCAACCC	ATTGACTTAT	TCACTTTTCC	GCCGGCGCCC	GGIICICCGG	AGCCGCCTCA
Ω//1	CCTTTCCCGG	CAGCCCGAGC	AGCCGGAGCA	GAGAGCCTTG	GGTCCGGIII	CTATGCCAAA
Q 01	CCTTGTGCCG	GAGGTGATCG	ATCTTACCTG	CCACGAGGCT	GGCTTTCCAC	CCAGIGACGA
961	CCACCATCAA	GAGGGTGAGG	AGTTTGTGTT	AGATTAIGIG	GAGCACCCCG	GGCACGGIIG
1021	CAGGTCTTGT	CATTATCACC	GGAGGAATAC	GGGGGACCCA	GAIAIIAIGI	GIICGCIIIG
1001	CTATATGAGG	ACCTGTGGCA	TGTTTGTCTA	CAGTAAGTGA	AAAAIIAIGG	GCAGIGGGIG
1141	ATAGAGTGGT	GGGTTTGGTG	TGGTAATTT	TTTTTAATI	HIACAGIII	IGIGGIIIAA
1201	AGAATTTTGT	ATTGTGATTT	TTTAAAAGGT	CCIGIGICIG	AACCIGAGCC	IGAGUUUGAG
1261	CCAGAACCGG	AGCCTGCAAG	ACCTACCCGG	CGTCCTAAAT	TGGTGCCTGC	TATUUTGAGA
1321	CGCCCGACAT	CACCTGTGTC	TAGAGAATGC	AATAGTAGTA	CGGATAGCTG	IGACICCGGI
1381	CCTTCTAACA	CACCTCCTGA	GATACACCCG	GTGGTCCCGC	TGTGCCCCAT	TAAACCAGTT
1441	GCCGTGAGAG	TTGGTGGGCG	TCGCCAGGCT	GTGGAATGTA	TCGAGGACII	GCTTAACGAG
1501	TCTGGGCAAC	CTTTGGACTT	GAGCTGTAAA	CGCCCCAGGC	CATAAGGTGT	AAACCIGIGA
1561	TTGCGTGTGT	GGTTAACGCC	TTTGTTTGCT	GAATGAGTTG	ATGTAAGTTT	AA I AAAGGG I
1621	GAGATAATGT	TTAACTTGCA	TGGCGTGTTA	AATGGGGCGG	GGCTTAAAGG	GIAIAIAAIG
1681	CGCCGTGGGC	TAATCTTGGT	TACATCTGAC	CTCATGGAGG	CIIGGGAGIG	TTGGAAGAT
1741	TITTCTGCTG	TGCGTAACTT	GCTGGAACAG	AGCTCTAACA	GTACCTCTTG	GIIIIGGAGG
1801	TTTCTGTGGG	GCTCCTCCCA	GGCAAAGTTA	GTCTGCAGAA	TTAAGGAGGA	TTACAAGTGG
1861	GAATTTGAAG	AGCTTTTGAA	ATCCTGTGGT	GAGCTGTTTG	ATTCTTTGAA	TCTGGGTCAC
1921	CAGGCGCTTT	TCCAAGAGAA	GGTCATCAAG	ACTTTGGATT	TTTCCACACC	GGGGCGCGCT
1981	GCGGCTGCTG	TTGCTTTTT	GAGTTTTATA	. Aaggataaat	GGAGCGAAGA	AACCCATCIG
20/11	ACCCCCCCCCT	ACCTGCTGGA	TTTTCTGGCC	ATGCATCTGT	GGAGAGCGG	GGTGAGACAC
2101	AAGAATCGCC	TGCTACTGTT	GTCTTCCGTC	CGCCCGGCAA	TAATACCGAC	GGAGGAGCAA
2161	CACCACCACC	∟∆∆GCC∆GGCG	: GCGGCGGCGG	i CAGGAGCAGA	GCCCATGGAA	LUUGAGAGUU
2221	CCCCTCCACC	CTCGGGAATG	: AATGTTGTAC	: AGGTGGCTGA	ACTGILICCA	GAACTGAGAC
2221	CCATTTTAAC	CATTAACGAG	GATGGGCAGG	GGCTAAAGGG	GGTAAAGAAG	DDDDDDDDDAA
22/1	CTTCTCACCC	ͳϼϹϼϹϼϹ	: GCTAGGAATO	TAACTIIAG	CITAATGACC	AGACACCGIC
2401	CTGAGTGTGT	TACTITICAG	: CAGATTAAGG	ATAATTGCGC	TAATGAGCTI	GAILIGUIGG
2/61	CCCACAACTA	TTCCATAGAG	: CAGCTGACCA	CHACIGGCI	GCAGCCAGGG	GAIGAIIIIG
2521	ΔGGΔGGCTΔT	TAGGGTATAT	* GCAAAGGTG0	: CACTTAGGCC	AGATIGUAAU	IACAAGAIIA
2521	CCANACTTCT	΄ ΔΔΔΤΔΤΩΑGG	S AATTGTTGCT	ACATITICIGG	GAACGGGGCC	, GAGGIGGAGA
2641	TAGATACGGA	GGATAGGGTG	GCCTTTAGAT	GTAGCATGAT	AAATATGTGG	CCGGGGGTGC

				_		
2701	TTGGCATGGA	CGGGGTGGTT	ATTATGAATG	TGAGGTTTAC	TGGTCCCAAT	TTTAGCGGTA
2761	CGGTTTTCCT	GGCCAATACC	AATCTTATCC	TACACGGTGT	AAGCTTCTAT	GGGTTTAACA
2821	ATACCTGTGT	GGAAGCCTGG	ACCGATGTAA	GGGTTCGGGG	CTGTGCCTTT	TACTGCTGCT
2881					TAAGAAATGC	
2941	GGTGTACCTT		TCTGAGGGTA	ACTCCAGGGT	GCGCCACAAT	GTGGCCTCCG
3001	ACTGTGGTTG	CTTTATGCTA	GTGAAAAGCG	TGGCTGTGAT	TAAGCATAAC	ATGGTGTGTG
	GCAACTGCGA					
	TGAAGACCAT					
	TACTGACCCG					
	GCAATTTGAG					
	ACGGGGTGTT					
	CCAGGTGCAG					
	ATGTGACCGA					
	GCTCTAGCGA					
	GAAAGAATAT					
	CCATGAGCGC					
	CCCCATGGGC					
	TGCCCGCAAA					
	CAGCCTCCGC					
3841	CTTTCCTGAG	CCCGCTTGCA	AGCAGTGCAG	TCACCCCCCA	ACTTAATCTC	CTTTCTCACC
3901	TGACGGCTCT	TOTOGCACAA	CACCETTOTO	CCCTCAACCC	TTCCTCCCCT	CCCAATCCCC
	AGCTGTTGGA					
	TTTAAAACAT					
	TCTTTATTTA					
	GGTCCTGTGT					
	CATAAGCCCG					
	GTTGTAGATG					
	TAGCAAGCTG				TTTACAAAGC	
	GGATGGGTGC				TGTATTTTA	
	GTTCCCAGCC					
	GGTGCACTTG					
4561	GCCCTTGTGA	CCTCCAAGAT	TTTCCATGCA	TTCGTCCATA	ATGATGGCAA	TGGGCCCACG
	GGCGGCGGCC					
	GAGATCGTCA					
4741	GGTTCCATCC	GGCCCAGGGG	CGTAGTTACC	CTCACAGATT	TGCATTTCCC	ACGCTTTGAG
4801	TTCAGATGGG	GGGATCATGT	CTACCTGCGG	GGCGATGAAG	AAAACCGTTT	CCGGGGTAGG
	GGAGATCAGC					
4921	CCCGTAAATC	ACACCTATTA	CCGGCTGCAA	CTGGTAGTTA	AGAGAGCTGC	AGCTGCCGTC
4981	ATCCCTGAGC	AGGGGGCCA	CTTCGTTAAG	CATGTCCCTG	ACTTGCATGT	TTTCCCTGAC
5041	CAAATCCGCC	AGAAGGCGCT	CGCCGCCCAG	CGATAGCAGT	TCTTGCAAGG	AAGCAAAGTT
5101	TTTCAACGGT	TTGAGGCCGT	CCGCCGTAGG	CATGCTTTTG	AGCGTTTGAC	CAAGCAGTTC
5161	CAGGCGGTCC	CACAGCTCGG	TCACGTGCTC	TACGGCATCT	CGATCCAGCA	TATCTCCTCG
5221	TTTCGCGGGT	TGGGGCGGCT	TTCGCTGTAC	GGCAGTAGTC	GGTGCTCGTC	CAGACGGGCC
5281	AGGGTCATGT	CTTTCCACGG	GCGCAGGGTC	CTCGTCAGCG	· TAGTCTGGGT	CACGGTGAAG
5341	GGGTGCGCTC	CGGGTTGCGC	GCTGGCCAGG	GTGCGCTTGA	GGCTGGTCCT	GCTGGTGCTG

				000400T400	ATTTCACCAT	CCTCTCATAC
5401	AAGCGCTGCC	GGTCTTCGCC	CTGCGCGTCG	GCCAGGTAGC	ATTIGACCAT	CCCCCCCAC
5461	TCCAGCCCCT	CCGCGGCGTG	GCCCTTGGCG	CGCAGCTTGC	CCIIGGAGGA	COATTOCCCC
5521	GAGGGCAGT	GCAGACTTTT	AAGGGCGTAG	AGCTTGGGCG	CGAGAAATAC	CGATICCGGG
5581	CACTACCCAT	CCGCGCCGCA	GGCCCCGCAG	ACGGTCTCGC	ATTUCACGAG	CCAGGIGAGC
5641	TCTGGCCGTT	CGGGGTCAAA	AACCAGGTTT	CCCCCATGCT	HHIGAIGUG	HILLIACCI
5701	CTCCTTTCCA	TGAGCCGGTG	TCCACGCTCG	GTGACGAAAA	GGCTGTCCGT	GILLLLGIAI
5761	ACAGACTTGA	GAGGCCTGTC	CTCGAGCGGT	GTTCCGCGGI	CCTCCTCGTA	TAGAAACTUG
5821	CACCACTCTG	AGACGAAGGC	TCGCGTCCAG	GCCAGCACGA	AGGAGGC I AA	G I GGGAGGGG
5881	TAGCGGTCGT	TGTCCACTAG	GGGGTCCACT	CGCTCCAGGG	TGTGAAGACA	CATGTCGCCC
50/1	TCTTCGGCAT	CAAGGAAGGT	GATTGGTTTA	TAGGTGTAGG	CCACGIGACC	GGGTGTTCCT
6001	CVVCCCCCCCC	TATAAAAGGG	GGTGGGGGCG	CGTTCGTCCT	CACICICIT	CGCATCGCTG
6061	TOTOCOAGGG	CCAGCTGTTG	GGGTGAGTAC	TCCCTCTCAA	AAGCGGGCAT	GALILIGUG
6121	CTAAGATTGT	CAGTTTCCAA	AAACGAGGAG	GATIIGAIAI	TCACC TGGCC	CGCGGTGATG
6191	CCTTTGAGGG	TGGCCGCGTC	CATCTGGTCA	GAAAAGACAA	1611111611	GICAAGCIIG
6241	GTGGCAAACG	ACCCGTAGAG	GGCGTTGGAC	AGCAACTIGG	CGATGGAGCG	CAGGGIIIGG
6301	TTTTTGTCGC	GATCGGCGCG	CTCCTTGGCC	GCGATGIIIA	GCTGCACGTA	1 1 CGCGCGCA
6361	ACGCACCGCC	ATTCGGGAAA	GACGGTGGTG	CGCTCGTCGG	GCACTAGGIG	CACGCGCCAA
6421	CCGCGGTTGT	GCAGGGTGAC	AAGGTCAACG	CTGGTGGCTA	CCTCTCCGCG	I AGGCGC I CG
6481	TTGGTCCAGC	AGAGGCGGCC	GCCCTTGCGC	GAGCAGAATG	GCGGTAGTGG	GICIAGCIGC
65/11	GTCTCGTCCG	GGGGGTCTGC	GTCCACGGTA	AAGACCCCGG	GCAGCAGGCG	CGCGTCGAAG
6601	TAGTCTATCT	TGCATCCTTG	CAAGTCTAGC	GCCTGCTGCC	ATGCGCGGGC	GGCAAGCGCG
6661	CGCTCGTATG	GGTTGAGTGG	GGGACCCCAT	GGCATGGGGT	GGGTGAGCGC	GGAGGCG IAC
6721	ATGCCGCAAA	TGTCGTAAAC	GTAGAGGGGC	TCTCTGAGTA	TTCCAAGATA	TGTAGGGTAG
6781	CATCTTCCAC	CGCGGATGCT	GGCGCGCACG	TAATCGTATA	GTTCGTGCGA	GGGAGCGAGG
6841	AGGTCGGGAC	CGAGGTTGCT	ACGGGCGGC	TGCTCTGCTC	GGAAGACTAT	CIGCCIGAAG
6901	ATGGCATGTG	AGTTGGATGA	TATGGTTGGA	CGCTGGAAGA	CGTTGAAGCT	GGCGICIGIG
6961	AGACCTACCG	CGTCACGCAC	GAAGGAGGCG	TAGGAGTCGC	GCAGCTIGIT	GACCAGCICG
7021	GCGGTGACCT	GCACGTCTAG	GGCGCAGTAG	TCCAGGGTTT	CCTTGATGAT	GICATACTIA
7081	TCCTGTCCCT	TTTTTTCCA	CAGCTCGCGG	TTGAGGACAA	ACTCTTCGCG	GICTITCCAG
7141	TACTCTTGGA	TCGGAAACCC	GTCGGCCTCC	GAACGGTAAG	AGCCTAGCAT	GTAGAACTGG
7201	TTGACGGCCT	GGTAGGCGCA	GCATCCCTTT	TCTACGGGTA	GCGCGTATGC	CTGCGCGGCC
7261	TTCCGGAGCG	AGGTGTGGGT	GAGCGCAAAG	GTGTCCCTAA	CCATGACTIT	GAGGTACTGG
7321	TATTTGAAGT	CAGTGTCGTC	GCATCCGCCC	TGCTCCCAGA	GCAAAAAGIC	CGIGCGCIII
7381	TTGGAACGCG	GGTTTGGCAG	GGCGAAGGTG	ACATCGTTGA	AGAGTATCII	TCCCGCGCGA
7441	CCCATAAAGT	TECETETEAT	GCGGAAGGGT	CCCGGCACCT	CGGAACGGII	GITAATTACC
7501	TEGGCGGCGA	GCACGATCTC	GTCAAAGCCG	TTGATGTTGT	GGCCCACAAT	GIAAAGIICC
755	AAGAAGCGCG	GGATGCCCTT	GATGGAAGGC	AATTTTTAA	GILCUICGIA	GGIGAGCICI
757	TCAGGGGAGC	TGAGCCCGTG	CTCTGAAAGG	GCCCAGTCTG	CAAGATGAGG	GIIGGAAGCG
768	ACGAATGAGO	TCCACAGGTC	ACGGGCCATT	' AGCATTTGCA	GGTGGTCGCG	AAAGGICCIA
778	* AACTGGCGAC	CTATGGCCAT	TTTTCTGGG	GTGATGCAGT	AGAAGGTAAG	CGGGICIIGI
750	TCCC AGCGGT	CCCATCCAAG	GTCCGCGGCT	AGGTCTCGCG	CGGCGGTCAC	IAGAGGUIUA
706	TOTOCCOCCA	ACTTCATGAC	CAGCATGAAG	GGCACGAGCT	GCTTCCCAAA	GGCCCCCATC
702	CAACTATAGG	: TCTCTACATC	GTAGGTGACA	AAGAGACGCT	CGGTGCGAGG	AIGCGAGCCG
700	I ATCCCCAACA	ACTGGATCTC	CCGCCACCAG	TTGGAGGAGT	GGC I GI I GA I	GIGGIGAAAG
804	I TAGAAGTCCC	TGCGACGGGC	CGAACACTCG	TGCTGGCTTT	TGTAAAAACG	TGCGCAGTAC

8101	TGGCAGCGGT	GCACGGGCTG	TACATCCTGC	ACGAGGTTGA	CCTGACGACC	GCGCACAAGG
9161	AAGCAGAGTG	GGAATTTGAG	CCCCTCGCCT	GGCGGGTTIG	GCIGGIGGIC	IICIACIICG
9221	CCTCCTTGTC	CTTGACCGTC	TGGCTGCTCG	AGGGGAGTIA	CGGTGGATCG	GALLALLALG
9291	CCCCCCCACC	CCAAAGTCCA	GATGTCCGCG	CGCGGCGGTC	GGAGCTTGAT	GACAACATCG
23/11	CCCAGATGGG	AGCTGTCCAT	GGTCTGGAGC	TCCCGCGGCG	TCAGG TCAGG	CGGGAGCICC
8401	TECAGETTTA	CCTCGCATAG	CCGGGTCAGG	GCGCGGGCTA	GGTCCAGGTG	ATACCTGATT
8461	TCCAGGGGGCT	GGTTGGTGGC	GGCGTCGATG	GCTTGCAAGA	GGCCGCATCC	CCGCGGCGCG
0521	ACTACGGTAC	CGCGCGGCGG	GCGGTGGGCC	GCGGGGGTGT	CCTTGGATGA	TGCATCTAAA
0501	ACTACUCTAC	CGGGCGGCC	CCCGGAGGTA	GGGGGGGCTC	GGGACCCGCC	GGGAGAGGGG
96/1	CCACCCCCAC	GTCGGCGCCG	CGCGCGGGCA	GGAGCTGGTG	CIGUGUGUGG	AGGIIGCIGG
Q701	CCAACGCGAC	GACGCGGCGG	TTGATCTCCT	GAATCTGGCG	CCICIGCGIG	AAGACGACGG
0761	CCCCCCTCAC	CTTGAACCTG	AAAGAGAGTT	CGACAGAATC	AATTICGGIG	TCGT GACGG
0021	CCCCCTCCCC	CAAAATCTCC	TGCACGTCTC	CTGAGTIGIC	IIGATAGGCG	AILIUGGULA
0021	TCAACTCCTC	GATCTCTTCC	TCCTGGAGAT	CTCCGCGTCC	GGCTCGCTCC	ACGGTGGCGG
0001	CCACCTCCTT	GGAGATGCGG	GCCATGAGCT	GCGAGAAGGC	GTTGAGGCCT	CCCTCGTTCC
0001	ACACCCCCCT	GTAGACCACG	CCCCCTTCGG	CATCGCGGGC	GCGCATGACC	ACCTGCGCGA
9001	CATTCACCTC	CACGTGCCGG	GCGAAGACGG	CGTAGTTTCG	CAGGCGCTGA	AAGAGGTAGT
9001	TCACCCTCCT	GGCGGTGTGT	TCTGCCACGA	AGAAGTACAT	AACCCAGCGC	CGCAACGTGG
9121	ATTECTTEAT	ATCCCCCAAG	GCCTCAAGGC	GCTCCATGGC	CTCGTAGAAG	TCCACGGCGA
9101	ATTCATAA	CTGGGAGTTG		CGGTTAACTC	CTCCTCCAGA	AGACGGATGA
9241	CCTCCCCCAC	AGTGTCGCGC	ACCTCGCGCT	CAAAGGCTAC	AGGGGCCTCT	TCTTCTTCTT
9301	CAATCTCCTC	TTCCATAAGG	CCTCCCCTT	CTTCTTCTTC	TGGCGGCGGT	GGGGGAGGG
9301	CAATCTCCTC	GCGACGACGG	CCCACCGGA	GCCGCTCGAC	AAAGCGCTCG	ATCATCTCCC
9421	CCCCCCACC	GCGCATGGTC	TCCCTCACCC	CECECCETT	CTCGCGGGGG	CGCAGTTGGA
9481	ACACCCCCCC	CGTCATGTCC	CCCTTATEGE	TTEECEGEGE	GCTGCCGTGC	GGCAGGGATA
9541	AGALGLUGUL	GATGCATGTCC	AACAATTCTT	GTGTAGGTAC	TCCGCCACCG	AGGGACCTGA
9601	CCCACTCCCC	ATCGACCGGA	TCCCAAAACC	TCTCGAGAAA	GGCGTCTAAC	CAGTCACAGT
9661	COCAACCTAC	GCTGAGCACC	CTCCCCCCCC	CLVCCCCCCCC	GCGGTCGGGG	TTGTTTCTGG
9/21	CGCAAGGTAG	GCTGAGCACC	TAATTAAACT	ACCCCCTCTT	GAGACGGCGG	ATGGTCGACA
9/81	CGGAGGIGCI	GTCCTTGGGT	CCCCCCTCCT	CAATCCCCAC	CCCCTCCCC	ATGCCCCAGG
9841	GAAGCACCAT	ACATCCCCCC	ACCTCTTTCT	ACTACTOTTC	CATGAGCCTT	TCTACCGGCA
9901	CITCGITTG	ACATCGGCGC	TOTOCTOCAT	CTCTTCCATC	TATCECTECE	GCGGCGGCGG
9961	ACTITION	TACCTCCCC	CCTCTTCCTC	CONTROCATO	CACCCCCAAG	CCCCTCATCG
10021	AGTITIGGCCG	I AGG I GGCGC	CCCACAACCC	CCTCCCCTAA	TATECCCTEC	TGCACCTGCG
10081	GUIGAAGCAG	OTCCAACTCC	TOCATOTOCA	CAAACCCCTC	CTATCCCCCC	TGCACCTGCG
10141	I GAGGGTAGA	CIGGAAGICG	ACCCACCACT	TAACCCTCTC	CTCACCCCC	GTGTTGATGG
10201	TGTAAGTGCA	GTTGGCCATA	ACGGACCAGI	ACTCAAACAC	CTACTCCTTC	
10261	CGGIGIACCI	GAGACGCGAG	IAAGUUUTIG	CCCCCCCCCC	CCCCTACACC	CAAGTCCGCA
10321	CCAGGTACTG	GIATCCCACC	AAAAAG I GCG		CCCATCATAT	GGCCAGCGTA
10381	GGGTGGCCGG	GGCTCCGGGG	GUGAGGIUII	CCAACATAAG	CCCCCCAAAC	CCGTAGATGT
10441	. ACCTGGACAT	CCAGGIGAIG	CCGGCGGCGG	COTCCATCCT	CCCCACCCTC	TCACGGACGC
10501	. GGTTCCAGAT	GIIGCGCAGC	GGCAAAAAGI	TODIAJOIJO		TGGCCGGTCA
10561	. GGCGCGCGCA	GICGIIGACG	ATTOCCAACC	I IGCAAAAGGA	CCVCCVCCC	GCGGGCACTC
10621	. TTCCGTGGTC	GGIGGATAA	ATTUGUAAGU	COTTACCCC	CCCCTCTCCA	GGTTCGAACC
10681	. CCGGATCCGG	CCGTCCGCCG	I IGATCCATGC	. GGTTACCGCC	TOCACCOCC	ACCCAGGTGT
10741	. GCGACGTCAG	a ACAACGGGGG	AGCGCTCCTT	1166611661	1 CCAGGCGCG	GCGGATGCTG

10001	CGCTAGCTTT	TTTCCCCACT	cccccccc	GGCGTAAGCG	CTTACCCTCC	AAAGCGAAAG
10801	CATTAAGTGG	CTCCCTCCCT	CTACCCCCAC	CCTTATTTTC	CAAGGGTTGA	GTCGCGGGAC
10801	CCCCGGTTCG	ACTCTCCCCC	CCCCCCCACT	CCCCCAACG	GGGGTTTGCC	TCCCCGTCAT
10921	GCAAGACCCC	CCTTCCAAAT	TCCTCCCCAA		GCCCCTTTTT	TGCTTTTCCC
10981	AGATGCATCC	CCTCCTCCCC	CACATCCCCC		GCAGCGGCAA	GAGCAAGAGC
11041	AGATGCATCC	ATCCACCCCA	CCCTCCCCTT	CTCCTACCCC	GTC AGGAGGG	GCAACATCCG
11101	AGCGGCAGAC	ATGUAGGUA	CCTCATTACC	VACCCCCCC	CCCCCCCVCC	CGGCACTACT
11161	CGGCTGACGC	GGCGGCAGAI	CCCCTCCCC	CCCTACCACC	CCCTCTCTCT	CAGCGACACC
11221	TGGACTTGGA	COTOAACCOT		ACCCCTACCT	GCCCTCTCCT	AACCTCTTTC
11281	CAAGGGTGCA	GUIGAAGUGI	GACACGCACA	TOCOCOATCO	AAACTTCCAT	CUVCCIALLIC
11341	GCGACCGCGA	GGGAGAGGAG	CCCGAGGAGA	TOCTCCCCCA	CCACCACTTT	CACCCCCACC
11401	AGTTGCGGCA	TGGCCTGAAC	CGCGAGCGGT	1GC 1GCGCGA	CCCCCACCTC	CTAACCCCCT
11461	CGCGGACCGG	GATTAGTCCC	GCGCGCGCAC	ACGIGGCGGC	CUCCGACCIG	CACCTCCCCA
11521	ACGAGCAGAC	GGTGAACCAG	GAGATTAACT	TICAAAAAAG	TOTOTOGOAG	TTTCTAACCC
11581	CGCTTGTGGC	GCGCGAGGAG	GTGGCTATAG	GACTGATGCA	1C1G1GGAC	ATACTCCACC
11641	CGCTGGAGCA	AAACCCAAAT	AGCAAGCCGC	TCATGGCGCA	GCIGITCCIT	ATAGTGCAGC
11701	ACAGCAGGGA	CAACGAGGCA	TTCAGGGATG	CGCTGCTAAA	CATAGTAGAG	CCCACCTTCA
11761	GCTGGCTGCT	CGATTTGATA	AACATTCTGC	AGAGCA TAGT	GGTGCAGGAG	CGCAGCTTGA
11821	GCCTGGCTGA	CAAGGTGGCC	GCCATTAACT	ATTCCATGCT	CAGTCTGGGC	AAGIIIIACG
11881	CCCGCAAGAT	ATACCATACC	CCTTACGTTC	CCATAGACAA	GGAGGTAAAG	ATCGAGGGGT
11941	TCTACATGCG	CATGGCGCTG	AAGGTGCTTA	CCTTGAGCGA	CGACCTGGGC	GITTATCGCA
12001	ACGAGCGCAT	CCACAAGGCC	GTGAGCGTGA	GCCGGCGGCG	CGAGCTCAGC	GACCGCGAGC
12061	TGATGCACAG	CCTGCAAAGG	GCCCTGGCTG	GCACGGGCAG	CGGCGATAGA	GAGGCCGAGT
12121	CCTACTTTGA	CGCGGGCGCT	GACCTGCGCT	GGGCCCCAAG	CCGACGCGCC	CTGGAGGCAG
12181	CTGGGGCCGG	ACCTGGGCTG	GCGGTGGCAC	CCGCGCGCGC	TGGCAACGIC	GGCGGCG I GG
12241	AGGAATATGA	CGAGGACGAT	GAGTACGAGC	CAGAGGACGG	CGAGTACTAA	GCGGTGATGT
12301	TTCTGATCAG	ATGATGCAAG	ACGCAACGGA	CCCGGCGGTG	CGGGCGCGC	TGCAGAGCCA
12361	GCCGTCCGGC	CTTAACTCCA	CGGACGACTG	GCGCCAGGTC	ATGGACCGCA	TCATGTCGCT
12421	GACTGCGCGC	AACCCTGACG	CGTTCCGGCA	GCAGCCGCAG	GCCAACCGGC	TCTCCGCAAT
12481	TCTGGAAGCG	GTGGTCCCGG	CGCGCGCAAA	CCCCACGCAC	GAGAAGG I GC	IGGCGAICGI
12541	AAACGCGCTG	GCCGAAAACA	GGGCCATCCG	GCCCGATGAG	GCCGGCCTGG	TCTACGACGC
12601	GCTGCTTCAG	CGCGTGGCTC	GTTACAACAG	CAGCAACGTG	CAGACCAACC	TGGACCGGCT
12661	GGTGGGGGAT	GTGCGCGAGG	CCGTGGCGCA	GCGTGAGCGC	GCGCAGCAGC	AGGGCAACCT
12721	GGGCTCCATG	GTTGCACTAA	ACGCCTTCCT	GAGTACACAG	CCCGCCAACG	TGCCGCGGGG
12781	ACAGGAGGAC	TACACCAACT	TTGTGAGCGC	ACTGCGGCTA	ATGGTGACTG	AGACACCGCA
12841	AAGTGAGGTG	TATCAGTCCG	GGCCAGACTA	TTTTTCCAG	ACCAGTAGAC	AAGGCC I GCA
12901	GACCGTAAAC	CTGAGCCAGG	CTTTCAAGAA	CTTGCAGGGG	CTGTGGGGGG	TGCGGGCTCC
12961	CACAGGCGAC	CGCGCGACCG	TGTCTAGCTT	GCTGACGCCC	AACTCGCGCC	TGTTGCTGCT
13021	GCTAATAGCG	CCCTTCACGG	ACAGTGGCAG	CGTGTCCCGG	GACACATACC	TAGGTCACTT
13021	GCTGACACTG	TACCGCGAGG	CCATAGGTCA	GGCGCATGTG	GACGAGCATA	CTTTCCAGGA
131/11	GATTACAAGT	GTTAGCCGCG	CGCTGGGGCA	GGAGGACACG	GGCAGCCTGG	AGGCAACCCT
13301	GAACTACCTG	CTGACCAACC	GGCGGCAAAA	AATCCCCTCG	TTGCACAGTT	TAAACAGCGA
13361	GGAGGAGCGC	ΔΤΤΤΤΑΛΑΓΕ	ATGTGCAGCA	GAGCGTGAGC	CTTAACCTGA	TGCGCGACGG
12221	GGTAACGCCC		TGGACATGAC	CGCGCGCAAC	ATGGAACCGG	GCATGTATGC
12201	. GG1744CGCCC CTCAAACCCC	CCGTTTATCA	ATCGCCTAAT	GGACTACTTG	CATCGCGCGG	CCGCCGTGAA
13//1	TATAACCUU. TATAAAAAA	TTCACCAATG	CCATCTTGAA	CCCGCACTGG	CTACCGCCCC	CTGGTTTCTA
T744T	CUCUGAGIAI	LIGHTON	. 5551.600	. 55555.0.00		

	11001
13501 CACCGGGGGA TTCGAGGTGC CCGAGGGTAA CGATGGATTC CTCTGGGACG ACATAG	ACGA
13561 CAGCGTGTTT TCCCCGCAAC CGCAGACCCT GCTAGAGTTG CAACAACGCG AGCAG	JUAGA
13621 GGCGGCGCTG CGAAAGGAAA GCTTCCGCAG GCCAAGCAGC TTGTCCGATC TAGGCC	ac I GC
13681 GGCCCCGCGG TCAGATGCTA GTAGCCCATT TCCAAGCTTG ATAGGGTCIC LIACCA	AGCAC
13741 TOGCACCACO CGCCCGCGCC TGCTGGGCGA GGAGGAGTAC CTAAACAACI CGCIGC	GCA
13801 GCCGCAGCGC GAAAAGAACC TGCCTCCGGC GTTTCCCAAC AACGGGATAG AGAGCC	CIAGI
13861 GGACAAGATG AGTAGATGGA AGACGTATGC GCAGGAGCAC AGGGATGTGC CCGGCC	CGCG
13921 CCCGCCCACC CGTCGTCAAA GGCACGACCG TCAGCGGGGT CTGGTGTGGG AGGACC	ia I Ga
13981 CTCGGCAGAC GACAGCAGCG TCTTGGATTT GGGAGGGAGI GGCAACCCGI IIGCAC	ALLI
14041 TCGCCCCAGG CTGGGGAGAA TGTTTTAAAA AAAGCATGAT GCAAAATAAA AAACTC	CACCA
14101 AGGCCATGGC ACCGAGCGTT GGTTTCTTG TATTCCCCTT AGTATGCGGC GCGCGC	CGAT
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14221 GGCGCTGGGT TCACCCTTCG ATGCTCCCCT GGACCCGCCG TTCGTGCCTC CGCGG	TACCT
14281 GCGGCCTACC GGGGGGAGAA ACAGCATCCG TTACTCTGAG TTGGCACCCC TATTC	GACAC
14341 CACCCGTGTG TACCTTGTGG ACAACAAGTC AACGGATGTG GCATCCCTGA ACTAC	CAGAA
14401 CGACCACAGC AACTITCTAA CCACGGTCAT TCAAAACAAT GACTACAGCC CGGGG	GAGGC
14461 AAGCACACAG ACCATCAATC TTGACGACCG GTCGCACTGG GGCGGCGACC TGAAA	ACCAT
14521 CCTGCATACC AACATGCCAA ATGTGAACGA GTTCATGTTT ACCAATAAGT TTAAG	GCGCG
14581 GGTGATGGTG TCGCGCTCGC TTACTAAGGA CAAACAGGTG GAGCTGAAAT ACGAG	TGGGT
14641 GGAGTTCACG CTGCCCGAGG GCAACTACTC CGAGACCATG ACCATAGACC TTATG	AACAA
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14761 CGGGGTAAAG TITGACACCC GCAACTTCAG ACTGGGGTTT GACCCAGTCA CTGGT	CTTGT
14821 CATGCCTGGG GTATATACAA ACGAAGCCTT CCATCCAGAC ATCATTTTGC TGCCA	GGATG
14881 CGGGGTGGAC TTCACCCACA GCCGCCTGAG CAACTTGTTG GGCATCCGCA AGCGG	CAACC
14941 CTTCCAGGAG GGCTTTAGGA TCACCTACGA TGACCTGGAG GGTGGTAACA TTCCC	GCACT
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15061 CGCAGGCGGC GGCAACAACA GTGGCAGCGG CGCGGAAGAG AACTCCAACG CGGCA	GCTGC
15121 GGCAATGCAG CCGGTGGAGG ACATGAACGA TCATGCCATT CGCGGCGACA CCTTT	GCCAC
15181 ACGGGCGGAG GAGAAGCGCG CTGAGGCCGA GGCAGCGGCC GAAGCTGCCG CCCCC	GCTGC
15241 GGAGGCTGCA CAACCCGAGG TCGAGAAGCC TCAGAAGAAA CCGGTGATTA AACCC	CTGAC
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15541 GEGCECCEAG CTGTTGCCCG TGCACTCCAA GAGCTTCTAC AACGACCAGG CCGIC	IACIC
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15661 GATTTTGGCG CGCCCGCCAG CCCCCACCAT CACCACCGTC AGTGAAAACG TICCI	GCTCT
15721 CACAGATCAC GGGACGCTAC CGCTGCGCAA CAGCATCGGA GGAGTCCAGC GAGTG	ACCAT
15781 TACTGACGCC AGACGCCGCA CCTGCCCCTA CGTTTACAAG GCCCTGGGCA TAGTC	TCGCC
15841 GCGCGTCCTA TCGAGCCGCA CTTTTTGAGC AAGCATGTCC ATCCTTATAT CGCCC	AGCAA
15901 TAACACAGGC TGGGGCCTGC GCTTCCCAAG CAAGATGTTT GGCGGGGCCA AGAAG	CGCTC
15961 CGACCAACAC CCAGTGCGCG TGCGCGGGCA CTACCGCGCG CCCTGGGGCG CGCAC	AAACG
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16081 CAACTACACG CCCACGCCGC CGCCAGTGTC CACCGTGGAC GCGGCCATTC AGACC	GIGGI
16141 GCGCGGAGCC CGGCGCTACG CTAAAATGAA GAGACGGCGG AGGCGCGTAG CACGT	CGCCA

16201	CCGCCGCCGA	CCCGGCACTG	CCGCCCAACG	CGCGGCGGCG	GCCCIGCTIA	ACCGCGCACG
16261	TCGCACCGGC	CGACGGGCGG	CCATGCGAGC	CGCTCGAAGG	CTGGCCGCGG	GTATTGTCAC
16321	TGTGCCCCCC	AGGTCCAGGC	GACGAGCGGC	CGCCGCAGCA	GCCGCGGCCA	TTAGTGCTAT
16381	GACTCAGGGT	CGCAGGGGCA	ACGTGTACTG	GGTGCGCGAC	TCGGTTAGCG	GCCTGCGCGT
	GCCCGTGCGC					
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	TGAACTTGAC					
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	TGAGCGCTCC					
19891	GCTTGAGCAG	GCCAACGAGC	ACCOCA ACCC	AACACCTAC	CTAAACCCCC	TOACACTOCA
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	GCAGGTGCTG					
	TGACTTGGCA					
	GGAAAAHATG					
	GGTGGCACCG					
	TAGTATTGCC					
17281	GGCAGATGCC	GCGGTGCAGG	CGGCCGCTGC	GGCCGCGTCC	AAGACCTCTA	CGGAGGTGCA
17341	AACGGACCCG	TGGATGTTTC	GTGTTTCAGC	CCCCCGGCGT	CCGCGCCGTT	CAAGGAAGTA
17401	CGGCGCCGCC	AGCGCGCTAC	TGCCCGAATA	TGCCCTACAT	CCTTCCATCG	CGCCTACCCC
	CGGCTATCGT					
	CACTGGAACC					
17581	CAGGGTGGCT	CGCGAAGGAG	GCAGGACCCT	GGTGCTGCCA	ACAGCGCGCT	ACCACCCCAG
17641	CATCGTTTAA	AAGCCGGTCT	TTGTGGTTCT	TGCAGATATG	GCCCTCACCT	GCCGCCTCCG
	TTTCCCGGTG					
	CCTGACGGGC					
	GCGCGGCGGT					
	CGGAATTGCA					
	GAAAAATCAA					
	AATGGAAGAC					
	AAACTGGCAA					
	GTGGAGCGGC					
	CAGCAGCACA					
18241	GGIAGAIGGC	CIGGCCICIG	TTOATOGGG	CCCTCCCCTA	CTGGCCAACC	CACCCCCCCC
18301	AAATAAGATT	AACAGTAAGC	TIGATUCCUG	CCCTCCGTA	GAGGAGCCIC	CACCAACAAA
	GGAGACAGTG					
	TCTGGTGACG					
18481	CACCACCCGT	CCCATCGCGC	CCATGGCTAC	CGGAGTGCTG	GGCCAGCACA	CACCCGTAAC
18541	GCTGGACCTG	CCTCCCCCCG	CCGACACCCA	GCAGAAACCT	GTGCTGCCAG	GCCCGTCCGC
18601	CGTTGTTGTA	ACCCGTCCTA	GCCGCGCGTC	CCTGCGCCGC	GCCGCCAGCG	GTCCGCGATC
18661	GTTGCGGCCC	GTAGCCAGTG	GCAACTGGCA	AAGCACACTG	AACAGCATCG	TGGGTTTGGG
18721	GGTGCAATCC	CTGAAGCGCC	GACGATGCTT	CTGATAGCTA	ACGTGTCGTA	IGTGTGTCAT
18781	GTATGCGTCC	ATGTCGCCGC	CAGAGGAGCT	GCTGAGCCGC	CGCGCGCCCG	CTTTCCAAGA
18841	TGGCTACCCC	TTCGATGATG	CCGCAGTGGT	CTTACATGCA	CATCTCGGGC	CAGGACGCCT

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18901	CGGAGTACCT	GAGCCCCGGG	CTGGTGCAGI	TCGCCCGCGC	CACCGAGACG	TACTICAGCC
18961	TGAATAACAA	GTTTAGAAAC	CCCACGGTGG	CGCCTACGCA	CGACGTGACC	ACAGACCGG I
19021	CTCAGCGTTT	GACGCTGCGG	TTCATCCCCG	TGGACCGCGA	GGATACTGCG	TACTCGTACA
19081	AGGCGCGGTT	CACCCTAGCT	GTGGGTGATA	ACCGTGTGCT	AGACATGGCT	TCCACGTACT
19141	TTGACATCCG	CGGCGTGCTG	GACAGGGGCC	CTACTTTTAA	GCCCTACTCT	GGCACTGCCT
19201	ACAACGCACT	GGCCCCCAAG	GGTGCCCCCA	ACTCGTGCGA	GTGGGAACAA	AATGAAACTG
19261	CACAAGTGGA	TGCTCAAGAA	CTTGACGAAG	AGGAGAATGA	AGCCAATGAA	GCTCAGGCGC
19321	GAGAACAGGA	ACAAGCTAAG	AAAACCCATG	TATATGCCCA	GGCTCCACTG	TCCGGAATAA
19381	AAATAACTAA	AGAAGGTCTA	CAAATAGGAA	CTGCCGACGC	CACAGTAGCA	GGTGCCGGCA
19441	AAGAAATTTT	CGCAGACAAA	ACTITICAAC	CTGAACCACA	AGTAGGAGAA	TCTCAATGGA
19501	ACGAAGCGGA	TGCCACAGCA	GCTGGTGGAA	GGGTTCTTAA	AAAGACAACT	CCCATGAAAC
19561	CCTGCTATGG	CTCATACGCT	AGACCCACCA	ATTCCAACGG	CGGACAGGGC	GTTATGGTTG
10621	AACAAAATGG	TAAATTGGAA	AGTCAAGTCG	AAATGCAATT	TTTTCCACA	TCCACAAATG
10691	CCACAAATGA	ΔΩΤΤΔΔΓΔΔΤ	ΑΤΑΓΑΑΓΓΑΑ	CAGTTGTATT	GTACAGCGAA	GATGTAAACA
107/11	TGGAAACTCC	ΔΩΤΔΩΤΩΤ	CTTTCTTATA	AACCTAAAAT	GGGGGATAAA	AATGCCAAAG
10001	TCATGCTTGG	ACAACAACCA	ΑΤΕΓΓΑΔΑΓΑ	GACCAAATTA	CATTGCTTTT	AGAGACAATT
10061	TTATTGGTCT	CATCTATTAC	AACAGCACACA	GTAACATGGG	TGTCCTTGCT	GGTCAGGCAT
10001	CGCAGTTGAA	CCCTCTTCTA	CATTTCCAAC	ACAGAAACAC	AGAGCTGTCC	TACCAGCTTT
10001	TGCTTGATTC	AATTGCCGAC	ACAACAACAT	ACTITITOAAT	GTGGAATCAA	GCTGTTGACA
	GCTATGATTC					
20101	ATTGCTTTCC	TCTTCCTCCA	ATTECENTA	CTCACACTTT	TCAAGCTGTT	ΔΔΔΔCΔΔCTG
20101	CTGCTAACGG	CCACCAACCC	AATACTACCT	CCCAAAAAAA	TTCAACATTT	GCAGAACGCA
2010T	ATGAAATAGG	CCTCCCAAGGC	AATACTACCT	TCCAAATTAA	CCTGAATGCC	AACCTATGGA
20221	GAAATTTCCT	TTACTCCAAT	ATTCCCCTCT	ACCTCCC ACA	CAACCTAAAA	TACAACCCA
20281	CCAATGTGGA	AATATOTOAG	ATTGCGCTGT	CCTACGACTA	CATCAACAAC	CCACTCCTCC
20341	CTCCTGGGCT	TOTACACTOC	TACATTAACC	TTCCCCCCCC	CTCCTCTCTC	CACTACATCC
	ACAACGTTAA					
	TGGGAAACGG					
	AAAACCTCCT					
	ACATGGTTCT					
	TTGACAGCAT					
	TGGAAGCCAT					
	CCAACATGCT					
20881	GCAACTGGGC	AGCATTICGC	GGTTGGGCCT	TCACACGCTT	GAAGACAAAG	TACCTTCACC
20941	CCCTGGGATC	AGGCTACGAC	CCTTACTACA	CCTACTCTGG	CICCATACCA	TALCTIGACG
21001	GAACCTTCTA	TCTTAATCAC	ACCITTAAGA	AGGIGGCCAI	TACTITIGAC	ICITCIGITA
	GCTGGCCGGG					
	ACGGGGAGGG					
21181	TGTTGGCCAA	CTACAATATT	GGCTACCAGG	GCTTCTACAT	TCCAGAAAGC	TACAAAGACC
21241	GCATGTACTC	GTTCTTCAGA	AACTTCCAGC	CCATGAGCCG	GCAAGTGGTG	GACGATACTA
21301	AATACAAAGA	TTATCAGCAG	GTTGGAATTA	TCCACCAGCA	TAACAACTCA	GGCTTCGTAG
21361	GCTACCTCGC	TCCCACCATG	CGCGAGGGAC	AAGCTTACCC	CGCTAATGTT	CCCTACCCAC
21421	TAATAGGCAA	AACCGCGGTT	GATAGTATTA	CCCAGAAAAA	GTTTCTTTGC	GACCGCACCC
21481	TGTGGCGCAT	CCCCTTCTCC	AGTAACTTTA	TGTCCATGGG	TGCGCTCACA	GACCTGGGCC
21541	AAAACCTTCT	CTACGCAAAC	TCCGCCCACG	CGCTAGACAT	GACCTTTGAG	GTGGATCCCA

01.001	TOOLOGACCC	CACCCTTCTT	TATCTTTTCT	TTCAACTCTT	TGACGTGGTC	CGTGTGCACC
21601	A CCCCCACCC	CCCCCTCATC	CACACCCTGT	ACCTGCGCAC	GCCCTTCTCG	GCCGGCAACG
21001	DJJAJJJJJA	AACAACCAAG	CAACATCAAC	AACAGCTGCC	GCCATGGGCT	CCAGTGAGCA
21/21	CCALCACATA	CCCATTCTCA	AACATCTTCC	TTGTGGGCCA	TATTTTTTGG	GCACCTATGA
21/81	CAACCCCTTC	CCACCCTTTG	TTTCCCCACA	CAAGCTCGCC	TGCGCCATAG	TTAACACGGC
21841	CAAGUGUTTU	ACTCCCCCCC	TACACTCCACA	CAAGCTCGCC	TGGAACCCGC	GCTCAAAAAC
21901	ATOCTA CCTC	AC I GGGGGGG	TTCCCTTTTC	TCACCAACGT	CTCAAGCAGG	TTTACCAGTT
21961	AIGUIACCIC	TOACTCCTCC	CCCCTACCCC	CATTCCCTCT	TCCCCCGACC	GCTGTATAAC
22021	TGAGTACGAG	TOCACCCAAA	CCCTCCACCC	CCCCAACTCG	CCCCCCACC	CCTATTCTG
22081	GCTGGAAAAG	OTOCACCCCT	TTCCCAACTC	CCCCCAAACT	GCCGCCTGTG	ΑΓΛΑΓΓΟΙΩ
22141	CIGCAIGIII	ATTACCOCCC	TACCCAACTC	CATCCTTAAC	CCCATGGATC	TACACCCCAC
22201	CATGAACCII	ATTACCGGGG	ACCUCAACIC	CATGUTTAAC	AGTCCCCAGG	CCTACTTCCC
22261	CCTGCGCCGC	AACCAGGAAC	AGCTCTACAG	TECTTETE	CGCCACTCGC	ACATCTAAAA
22321	CAGCCACAGT	GCGCAAATTA	GGAGCGCCAC	COAAATOTTT	CACTTGAAAA	ACTOTOCCCT
22381	ATAATGTACT	AGGAGACACT	TICAATAAAG	GCAAAIGIII	TTATTTGTAC	TTCTCCCCCC
22441	GATTATTTAC	CCCCACCCTT	GCCGTCTGCG	CCGITTAAAA	ATCAAAGGGG	CTCCACTTAA
22501	CATCGCTATG	CGCCACTGGC	AGGGACACGI	TGCGATACTG	GTGTTTAGTG	CTCCCCACCA
22561	ACTCAGGCAC	AACCATCCGC	GGCAGCTCGG	TGAAGIIIIC	ACTCCACAGG	CIGCGCACCA
22621	TCACCAACGC	GTTTAGCAGG	TCGGGCGCCG	ATATCTTGAA	GTCGCAGTTG	GGGCC ICCGC
22681	CCTGCGCGCG	CGAGTTGCGA	TACACAGGGT	TACAGCACTG	GAACACTATC	AGCGCCGGGT
22741	GGTGCACGCT	GGCCAGCACG	CTCTTGTCGG	AGATCAGATC	CGCGTCCAGG	100100GCG1
22801	TGCTCAGGGC	GAACGGAGTC	AACTTTGGTA	GCTGCCTTCC	CAAAAAGGGT	GCATGCCCAG
22861	GCTTTGAGTT	GCACTCGCAC	CGTAGTGGCA	TCAGAAGGTG	ACCGTGCCCA	GICIGGGCGI
22921	TAGGATACAG	CGCCTGCATG	AAAGCCTTGA	TCTGCTTAAA	AGCCACCTGA	GCCTTTGCGC
22981	CTTCAGAGAA	GAACATGCCG	CAAGACTTGC	CGGAAAACTG	ATTGGCCGGA	CAGGCCGCGT
23041	CATGCACGCA	GCACCTTGCG	TCGGTGTTGG	AGATCTGCAC	CACATTTCGG	CCCCACCGGT
23101	TCTTCACGAT	CTTGGCCTTG	CTAGACTGCT	CCTTCAGCGC	GCGCTGCCCG	TTTTCGCTCG
23161	TCACATCCAT	TTCAATCACG	TGCTCCTTAT	TTATCATAAT	GCTCCCGTGT	AGACACTTAA
23221	GCTCGCCTTC	GATCTCAGCG	CAGCGGTGCA	GCCACAACGC	GCAGCCCGTG	GGCTCGTGGT
23281	GCTTGTAGGT	TACCTCTGCA	AACGACTGCA	GGTACGCCTG	CAGGAATCGC	CCCATCATCG
23341	TCACAAAGGT	CTTGTTGCTG	GTGAAGGTCA	GCTGCAACCC	GCGGTGCTCC	TCGTTTAGCC
23401	AGGTCTTGCA	TACGGCCGCC	AGAGCTTCCA	CTTGGTCAGG	CAGTAGCTIG	AAGITIGCCT
23461	TTAGATCGTT	ATCCACGTGG	TACTTGTCCA	TCAACGCGCG	CGCAGCCTCC	ATGCCCTTCT
23521	CCCACGCAGA	CACGATCGGC	AGGCTCAGCG	GGTTTATCAC	CGTGCTTTCA	CTTTCCGCTT
73581	CACTGGACTC	TTCCTTTTCC	TCTTGCATCC	GCATACCCCG	CGCCACTGGG	TCGTCTTCAT
23641	TCAGCCGCCG	CACCGTGCGC	TTACCTCCCT	TGCCGTGCTT	GATTAGCACC	GGTGGGTTGC
23701	TGAAACCCAC	CATTTGTAGC	GCCACATCTT	CTCTTTCTTC	CTCGCTGTCC	ACGATCACCI
23761	CTGGGGATGG	CGGGCGCTCG	GGCTTGGGAG	AGGGGCGCTT	CTTTTCTT	TIGGACGCAA
7787	TEGCCAAATC	CGCCGTCGAG	GTCGATGGCC	GCGGGCTGGG	TGTGCGCGGC	ACCAGCGCAT
77221	CTTGTGACGA	GTCTTCTTCG	TCCTCGGACT	CGAGACGCCG	CCTCAGCCGC	TTTTTTGGGG
23041	arerereee	AGGCGGCGGC	GACGGCGACG	GGGACGAGAC	GICCICCAIG	GIIGGIGGAC
24/407	GTCGCGCCCC	ACCGCGTCCG	CGCTCGGGGG	TGGTTTCGCG	CTGCTCCTCT	TCCCGACTGG
24001	CCATTTCCTT	CTCCTATAGG	CAGAAAAAGA	TCATGGAGTC	AGTCGAGAAG	GAGGACAGCC
27001	TAACCECCC	CTTTGAGTTC	GCCACCACCG	CCTCCACCGA	TGCCGCCAAC	GCGCCTACCA
24161	CCTTCCCCT		CCGCTTGAGG	AGGAGGAAGT	GATTATCGAG	CAGGACCCAG
72721	GTTTTGTAAG	CGAAGACGAC	GAAGATCGCT	CAGTACCAAC	AGAGGATAAA	AAGCAAGACC
T_T_						

24301	AGGACGACGC	AGAGGCAAAC	GAGGAACAAG	TCGGGCGGGG	GGACCAAAGG	CATGGCGACT
24361	ACCTAGATGT	GGGAGACGAC	GTGCTGTTGA	AGCATCTGCA	GCGCCAGTGC	GCCATTATCT
24421	GCGACGCGTT	GCAAGAGCGC	AGCGATGTGC	CCCTCGCCAT	AGCGGATGTC	AGCCTTGCCT
24481	ACGAACGCCA	CCTGTTCTCA	CCGCGCGTAC	CCCCCAAACG	CCAAGAAAAC	GGCACATGCG
2/5/1	AGCCCAACCC	GCGCCTCAAC	TTCTACCCCG	TATTTGCCGT	GCCAGAGGTG	CTTGCCACCT
2/601	ΑΤΓΑΓΑΤΓΤΤ	ΤΤΤΓΓΔΔΔΔΩ	TGCAAGATAC	CCCTATCCTG	CCGTGCCAAC	CGCAGCCGAG
24661	CCCVCVICII	CTCCCCTTC	CGGCAGGGCG	CTGTCATACC	TGATATCGCC	TCGCTCGACG
24701	AACTCCCAAA	AATCTTTCAG	GGTCTTGGAC	GCGACGAGAA	GCGCGCGCA	AACGCTCTGC
24721	AACAACAAA	CACCCAAAAT	CANACTOACT	CTCCACTCCT	GGTGGAACTT	GAGGGTGACA
24/01	AACAAGAAAA	ACCCCTCCTC	AAACCCACCA	TCCACCTCAC	CCACTTTGCC	TACCCGGCAC
24841	ACGCGCCTACC	CCCCAACCTT	ATCACCACAC	TCATCACCCA	GCTGATCGTG	CECCETECAC
24901	TIAACCTACC	CACCCATCCA	AACTTCCAAC	AACAAACCCA	CCACCCCTA	CCCCCACTTC
24961	GACCCCTGGA	GAGGGAIGCA	TOOCTTCACA	CCCCCACCC	GGAGGGCCTA	CACCACACTA
25021	GCGATGAGCA	GUIGGUGUGU	1GGC 1 GAGA	COCTOCACCT	TGCCGACTTG	CACCCCTTCT
25081	GCAAGCTAAT	GATGGCCGCA	GIGCIIGIIA	ACCAAACCTT	TGAGTGCATG	TTTCCCCACC
25141	TTGCTGACCC	GGAGATGCAG	CGCAAGCTAG	AGGAAACGII	GCACTACACC	CTCTCCTACC
25201	GCTACGTGCG	CCAGGCCTGC	AAAATTICCA	ACGIGGAGCI	CTGCAACCTG	GTC A A CCCCC
25261	TTGGAATTTT	GCACGAAAAC	CGCCTTGGGC	AAAACGTGCT	TCATTCCACG	LICAAGGGGCG
25321	AGGCGCGCCG	CGACTACGTC	CGCGACTGCG	TTTACTIATI	TCTGTGCTAC	ACCIGGCAAA
25381	CGGCCATGGG	CGTGTGGCAG	CAGTGCCTGG	AGGAGCGCAA	CCTGAAGGAG	CTGCAGAAGC
25441	TGCTAAAGCA	AAACTTGAAG	GACCTATGGA	CGGCCTTCAA	CGAGCGCTCC	GIGGCCGCGC
25501	ACCTGGCGGA	CATTATCTTC	CCCGAACGCC	TGCTTAAAAC	CCTGCAACAG	GGTCTGCCAG
25561	ACTTCACCAG	TCAAAGCATG	TTGCAAAACT	TTAGGAACTT	TATCCTAGAG	CGTTCAGGAA
25621	TTCTGCCCGC	CACCTGCTGT	GCGCTTCCTA	GCGACTTTGT	GCCCATTAAG	TACCGTGAAT
25681	GCCCTCCGCC	GCTTTGGGGT	CACTGCTACC	TTCTGCAGCT	AGCCAACTAC	CTTGCCTACC
25741	ACTCCGACAT	CATGGAAGAC	GTGAGCGGTG	ACGGCCTACT	GGAGTGTCAC	TGTCGCTGCA
25801	ACCTATGCAC	CCCGCACCGC	TCCCTGGTCT	GCAATTCACA	ACTGCTTAGC	GAAAGTCAAA
25861	TTATCGGTAC	CTTTGAGCTG	CAGGGTCCCT	CGCCTGACGA	AAAGTCCGCG	GCTCCGGGGT
25921	TGAAACTCAC	TCCGGGGCTG	TGGACGTCGG	CTTACCTTCG	CAAATTTGTA	CCTGAGGACT
25981	ACCACGCCCA	CGAGATTAGG	TTCTACGAAG	ACCAATCCCG	CCCGCCAAAT	GCGGAGCTTA
26041	CCCCCTCCGT	CATTACCCAG	GGCCACATCC	TTGGCCAATT	GCAAGCCATT	AACAAAGCCC
26101	GCCAAGAGTT	TCTGCTACGA	AAGGGACGGG	GGGTTTACTT	GGACCCCCAG	TCCGGCGAGG
26161	ΔΩΟΤΟΔΑΟΟΟ	AATCCCCCCG	CCGCCGCAGC	CCTATCAGCA	GCCGCGGGCC	CTTGCTTCCC
26221	AGGATGGCAC		GCTGCAGCTG	CCGCCGCCGC	CACCCACGGA	CGAGGAGGAA
26221	TACTECEACA	CTCAGGCAGA	GGAGGTTTTG	GACGAGGAGG	AGGAGATGAT	GGAAGACTGG
20201	CACACCCTAC	ACCACCACA ACC	TTCCGAGGCC	GAAGAGGTGT	CAGACGAAAC	ACCGTCACCC
26401	TECETECE	TCCCCTCCCC	CCCCCCCC	AAATCGGCAA	CCGTTCCCAG	CATTGCTACA
20401	ACCTCCCCTC	CTCAGGCGCC	CCCCCACTG	CCCGTTCGCC	GACCCAACCG	TAGATGGGAC
20401	ACCACTCCAA	CCACCCCCC	TAACTCTAAC	CACCCCCCCC	CCTTACCCCA	AGAGCAACAA
20021	ACCACT GGAA	CCTACCCCTC	CTCCCCCCTC	CACAACAACC	CCATACTTCC	TTGCTTGCAA
20581	CAGUGUCAAG	CCAACATCTC	CTTCCCCCC	CACAAGAACG	TCTACCATCA	CCCCCTCCCC
26641	GACIGIGGG	GCAACAICIC	TTACTACCCT	CATCTCTACA	CCCCCTACTC	CACCECCEC
26/01	TUCCCCGIA	ACATCUTGUA	TACTACCG	CATCICIACA	GCCCCTACTG	ACACTCTCAC
26761	AGCGGCAGCA	ACAGCAGCGG	CCACGCAGAA		CCGGATAGCA	CTCTCCCCCC
26821	AAAGCCCAAG	AAATCCACAG	CGGCGGCAGC	ADDADDADDA	GGAGCACTC	TCTATCCTAT
26881	CAACGAACCC	GTATCGACCC	GUGAGUTTAG	AAALAGGAII	AAAAAAAAA	TGTATGCTAT
26941	ATTTCAACAG	AGCAGGGGCC	AAGAACAAGA	GCTGAAAATA	AAAAACAGGI	CTCTGCGCTC

						COCTOCAACA
27001	CCTCACCCGC	AGCTGCCTGT	ATCACAAAAG	CGAAGATCAG	CTTCGGCGCA	CGC I GGAAGA
27061	CGCGGAGGCT	CTCTTCAGCA	AATACTGCGC	GCTGACTCTT	AAGGACTAGT	116666666
27121	TTCTCAAATT	TAAGCGCGAA	AACTACGTCA	TCTCCAGCGG	CCACACCCGG	CGCCAGCACC
27181	TGTCGTCAGC	GCCATTATGA	GCAAGGAAAT	TCCCACGCCC	TACATGTGGA	GITACCAGCC
272/1	ACAAATGGGA	CTTGCGGCTG	GAGCTGCCCA	AGACTACTCA	ACCCGAATAA	ACTACATGAG
27301	CGCGGGACCC	CACATGATAT	CCCGGGTCAA	CGGAATCCGC	GCCCACCGAA	ACCGAATICT
27361	CCTCGAACAG	GCGGCTATTA	CCACCACACC	TCGTAATAAC	CTTAATCCCC	GIAGITGGCC
27/121	CECTECCCTE	GTGTACCAGG	AAAGTCCCGC	TCCCACCACT	GTGGTACTTC	CCAGAGACGC
27/121	CCAGGCCGAA	GTTCAGATGA	CTAACTCAGG	GGCGCAGCTT	GCGGGCGGCT	TTCGTCACAG
275/1	CCTCCCCTCC	CCCGGGCAGG	GTATAACTCA	CCTGAAAATC	AGAGGGCGAG	GIATICAGCI
27601	CAACGACGAG	TCGGTGAGCT	CCTCTCTTGG	TCTCCGTCCG	GACGGGACAT	TTCAGATCGG
27661	CARCARCARA	CGCTCTTCAT	TTACGCCCCG	TCAGGCGATC	CTAACTCTGC	AGACCTCGTC
27721	CTCGGAGCCG	CGCTCCGGAG	GCATTGGAAC	TCTACAATTT	ATTGAGGAGT	TCGTGCCTTC
27701	CTCGGAGCCG	AACCCCTTTT	CTGGACCTCC	CGGCCACTAC	CCGGACCAGT	TTATTCCCAA
27701	CTTTCACCC	GTAAAAGACT	CGGCGGACGG	CTACGACTGA	ATGACCAGTG	GAGAGGCAGA
27001	CLITAGECCE	CTGACACACC	TCGACCACTG	CCGCCGCCAC	AAGTGCTTTG	CCCGCGGCTC
27061	CCCTCACTIT	TGTTACTTTG	AATTGCCCGA	AGAGCATATC	GAGGGCCCGG	CGCACGGCGT
20021	CCCCCTCACC	ACCCAGGTAG	AGCTTACACG	TAGCCTGATT	CGGGAGTTTA	CCAAGCGCCC
20021	CCTCCTACTC	GAGCGGGAGC	GGGGTCCCTG	TGTTCTGACC	GTGGTTTGCA	ACTGTCCTAA
201/1	CCTGCTAGTG	CATCAAGATC	TITGTTGTCA	TCTCTGTGCT	GAGTATAATA	AATACAGAAA
20141	TTACAATCTA	CTGGGGCTCC	TGTCGCCATC	CTGTGAACGC	CACCGTTTTT	ACCCACCCAA
20201	ACCACACCAA	AGCAAACCTC	ACCTCCGGTT	TGCACAAGCG	GGCCAATAAG	TACCTTACCT
20201	CCTACTTTAA	CGGCTCTTCA	TITGTAATIT	ACAACAGTTT	CCAGCGAGAC	GAAGTAAGTT
20321	TCCCACACAA	CCTTCTCGGC	TTCAACTACA	CCGTCAAGAA	AAACACCACC	ACCACCCTCC
20301	TCACCTCCCC	GGAACGTACG	ACTCCCTC AC	CEGTTECTEC	GCCCACACCT	ACAGCCTGAG
28441	CCTAACCACA	CATTACTCCC	ATTITCCCAA	AACAGGAGGT	GAGCTCAACT	CCCGGAACTC
28501	ACCTCAAAAA	AGCATTITGC	CCCCTCCTCC	CATTTTTTAA	TTAAGTATAT	GAGCAATTCA
78201	AGGICAAAA	CAAGCTTGTC	TAATITICT	GGAATTGGGG	TCGGGGTTAT	CCTTACTCTT
28021	AGIAACICIA	TTATTCTTAT	ACTAGCACTT	CTCTCCCTTA	GGGTTGCCGC	CTGCTGCACG
28681	GIAATICIGI	CCTATTGTCA	CCTTTTAAA	CECTECECEC	CACATCCAAG	ATGAGGTACA
28/41	CACGIIIGIA	CTTGCTCGCC	CTTCCCCCAC	TCTCCACCCC	TGCCAAAAG	GTTGAGTTTA
28801	1GAIII IAGG	TTCCAATCTT	ACATTTAAAT	CACAACCTAA	TCAATCCACT	ΔΓΤΟΤΤΔΤΔΑ
58861	AGGAACCAGC	TTGCAATGTT	ACCTTATTA	TTCCCCACAA	ACACAAAATT	GGCAAGTATG
28921	AATGUAUUAU	AGAACATGAA	CCACCTCACA		TAATCTCACA	GTCTTCCAAG
28981	CIGIAIAIGC	TATTTGGCAG	CCAGGTGACA	TTCCATTTTA	TCAAATCTCC	CATATTACCA
29041	GIGAAAAICG	TAAAACTTTT	AIGIAIAAAI	CCCCACAAAA	CTCTTTACAC	AACACTGGCA
29101	IGIACAIGAG	CAAACAGIAC	AAGIIGIGGC	CCCTTCCTTT	CCTATCTACC	AACACTGGCA
29161	CCIIIIGIIC	CACCGCTCTG	CHAHACAG	ATCAAAACAA	AATCCCTTCA	TTACTTTATC
29221	ICAAATACAA	AAGCAGACGC	AGIIIIAIIG	ATGAAAAGAA CTCCCATATC	CCCCACCCCC	TTTTCCGCTT
29281	GCTIGIATIO	CCCIGGACAA	ACTITION	ACCTTACCCC	CTCACTTCTC	GAAAGATTAT
29341	. ACCCACAACC	TTOATOAA	ACTITUTION	CTTCCCTCCT	COMMOTICIO	CCAGCGCCTG
29401	CACTGCAAAT	TIGATCAAAC	ULAGUIIUAG	CACTCCTACC		CCGGCTCAAC
29461	CATCGCGCCC	ACAACGGACT	ATCGCAACAC	CTCCCCCACC	TTCCCCATCT	CTGCCCTAAA
29521	. ITTACCCCAA	ATOTALICE	HUILAAIGA	. してははないはみなし * エATCTCCCTT	ATTTETTECC	GGTGGTTTTC
29581	. CATAGCGCTT	AIGITIGITI	GCCITATIAL	IAIGIGGUII	ATTIBLITY AND	TAAAGCGCAG
29641	. ACGCGCCAGA	CCCCCCATCT	ATAGGCCTAT	CALIGIBLE	AACCCACACA	ATGAAAAAAT

29701	TCATAGATTG	GACGGTCTCA	AACCATGTTC	TCTTCTTTTA	CAGTATGATT	AAATGAGACA
29761	TGATTCCTCG	AGTCCTTATA	TTATTGACCC	TTGTTGCGCT	TTTCTGTGCG	TGCTCTACAT
29821	TGGCTGCGGT	CGCTCACATC	GAAGTAGATT	GCATCCCACC	TTTCACAGTT	TACCTGCTTT
	ACGGATTTGT					
	AGTTCATTGA					
	ACAGGACTAT					
	TTTGCTGATT					
	ACATATTTCC					
	CGATTTGTCA					
	TTTTGCCCTA					
	CCACCCTACT					
	TCAGCCTCGC					
30421	AGATGACTGA	ATCTCTAGAT	CTAGAATTGG	ATGGAATTAA	CACCGAACAG	CGCCTACTAG
30481	AAAGGCGCAA	GGCGGCGTCC	GAGCGAGAAC	GCCTAAAACA	AGAAGTTGAA	GACATGGTTA
30541	ACCTGCACCA	GTGTAAAAGA	GGTATCTTT	GTGTGGTCAA	GCAGGCCAAA	CTTACCTACG
	AAAAAACCAC					
	TGCTTATGGT					
	GCCTGCACTT					
	GCATTAGAGA					
	ATCAGTCAGC					
	CTGGTATTTC					
	TTCCTCATGT					
	CAGACCGTCT					
21101	AACTGTGCCT	TOTALLL	CICCCIIIGI	GICGCCAAAI	GGGTTCCAAG	AAAGTCCCCC
	CGGAGTGCTT					
	AAAAATGGGC					
	TGTTTCTCAA					
	TACAGTCAGC					
	CACTCTTACC					
31441	TACCAAAGAG	CCACTTACAG	TGTTAGATGG	AAAACTGGCC	CTGCAGACAT	CAGCCCCCCT
31501	CTCTGCCACT	GATAACAACG	CCCTCACTAT	CACTGCCTCA	CCTCCTCTTA	CTACTGCAAA
31561	TGGTAGTCTG	GCTGTTACCA	TGGAAAACCC	ACTTTACAAC	AACAATGGAA	AACTTGGGCT
	CAAAATTGGC					
	TCAGGGGGTT					
	TGATACATCT					
31801	TCCTAACCAA	AAACTACATA	ΤΤΑΑΤΌΤΑΔΑ	ΤΑΓΓΑΓΑΔΑ	GGCCTTGCTT	TTGACAACAC
31861	CGCAATAACA	ATTAACGCTG	GAAAAGGGTT	GGAATTTGAA	ACAGACTCCT	
31921	TCCCATAAAA	ΑΓΑΛΑΔΑΛΤΤΩ	CATCACCCAT	ACAATATAAT	ACCAATCCAC	CTATECTTCC
31001	AAAACTTGGA	ACACCCCTCA	CTITICACAC	CTCCCCACCC	ATAACAATCC	CCACCATAAA
	CAATGACAGA					
	AGATAAAGAC					
	TGTTTCAGCT					
	AAACTTGGTT					
	ACAGTATTGG					
32341	TGGGTTTATG	CCAAACCTAA	AAGUTTACCC	AAAAACTCAA	AGTAAAACTG	LAAAAAGTAA

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32401	TATIGITAGC	CAGGIGIAIC	TIAATGGTGA	CAAGICIAAA	CCATTGCATT	TCACTTCCTC
32461	GCTAAATGGA	ACAGAIGAAA	CCAACCAAGI	AAGCAAATAC	TCAATATCAT	CCTTCTCCTA
32521	CTGGAACAGT	GGACAATACA	CIAAIGACAA	ATTIGCCACC	AATTCCTATA	CTCTTATT
32581	CATTGCCCAG	GAATAAAGAA	TCGTGAACCT	GTTGCATGTT	ATGTTTCAAC	COACCACATA
32641	TTCAATTGCA	GAAAATTTCA	AGTCATTTT	CATTCAGTAG	TATAGCCCCA	CCACCACATA
32701	GCTTATACTA	ATCACCGTAC	CTTAATCAAA	CTCACAGAAC	CCTAGTATTC	AACCTGCCAC
32761	CTCCCTCCCA	ACACACAGAG	TACACAGTCC	TTTCTCCCCG	GCTGGCCTTA	AACAGCATCA
32821	TATCATGGGT	AACAGACATA	TTCTTAGGTG	TTATATTCCA	CACGGTCTCC	IGICGAGCCA
32881	AACGCTCATC	AGTGATGTTA	ATAAACTCCC	CGGGCAGCTC	GCTTAAGTTC	AIGICGCIGI
32941	CCAGCTGCTG	AGCCACAGGC	TGCTGTCCAA	CTTGCGGTTG	CTCAACGGGC	GGCGAAGGAG
33001	AAGTCCACGC	CTACATGGGG	GTAGAGTCAT	AATCGTGCAT	CAGGATAGGG	CGGTGGTGCT
33061	GCAGCAGCGC	GCGAATAAAC	TGCTGCCGCC	GCCGCTCCGT	CCTGCAGGAA	TACAACATGG
33121	CAGTGGTCTC	CTCAGCGATG	ATTCGCACCG	CCCGCAGCAT	AAGGCGCCTT	GTCCTCCGGG
33181	CACAGCAGCG	CACCCTGATC	TCACTTAAGT	CAGCACAGTA	ACTGCAGCAC	AGTACCACAA
33241	TATTGTTTAA	AATCCCACAG	TGCAAGGCGC	TGTATCCAAA	GCTCATGGCG	GGGACCACAG
33301	AACCCACGTG	GCCATCATAC	CACAAGCGCA	GGTAGATTAA	GTGGCGACCC	CTCATAAACA
33361	CGCTGGACAT	AAACATTACC	TCTTTTGGCA	TGTTGTAATT	CACCACCTCC	CGGTACCATA
33421	TAAACCTCTG	ATTAAACATG	GCGCCATCCA	CCACCATCCT	AAACCAGCTG	GCCAAAACCT
33481	GCCCGCCGGC	TATGCACTGC	AGGGAACCGG	GACTGGAACA	ATGACAGTGG	AGAGCCCAGG
33541	ACTCGTAACC	ATGGATCATC	ATGCTCGTCA	TGATATCAAT	GTTGGCACAA	CACAGGCACA
33601	CGTGCATACA	CTTCCTCAGG	ATTACAAGCT	CCTCCCGCGT	CAGAACCATA	TCCCAGGGAA
33661	CAACCCATTC	CTGAATCAGC	GTAAATCCCA	CACTGCAGGG	AAGACCTCGC	ACGTAACTCA
33721	CGTTGTGCAT	TGTCAAAGTG	TTACATTCGG	GCAGCAGCGG	ATGATCCTCC	AGTATGGTAG
33781	CGCGTGTCTC	TGTCTCAAAA	GGAGGTAGGC	GATCCCTACT	GTACGGAGTG	CGCCGAGACA
33841	ACCGAGATCG	TGTTGGTCGT	AGTGTCATGC	CAAATGGAAC	GCCGGACGTA	GTCATATTTC
33901	CTGAAGCAAA	ACCAGGTGCG	GGCGTGACAA	ACAGATCTGC	GTCTCCGGTC	TCGTCGCTTA
33961	GCTCGCTCTG	TGTAGTAGTT	GTAGTATATC	CACTCTCTCA	AAGCATCCAG	GCGCCCCCTG
34021	GCTTCGGGTT	CTATGTAAAC	TCCTTCATGC	GCCGCTGCCC	TGATAACATC	CACCACCGCA
34081	GAATAAGCCA	CACCCAGCCA	ACCTACACAT	TCGTTCTGCG	AGTCACACAC	GGGAGGAGCG
34141	GGAAGAGCTG	GAAGAACCAT	GTTTTTTT	TTTATTCCAA	AAGATTATCC	AAAACCTCAA
34201	AATGAAGATC	TATTAAGTGA	ACGCGCTCCC	CTCCGGTGGC	GTGGTCAAAC	TCTACAGCCA
34261	AAGAACAGAT	AATGGCATTT	GTAAGATGTT	GCACAATGGC	TTCCAAAAGG	CAAACTGCCC
34321	TCACGTCCAA	GTGGACGTAA	AGGCTAAACC	CTTCAGGGTG	AATCTCCTCT	ATAAACATIC
34381	CAGCACCTTC	AACCATGCCC	TTTTAATAAA	CATCTCGCCA	CCTTATCAAT	ATGTCTCTAA
34441	GCAAATCCCG	AATATTAAGT	CCGGCCATTG	TAAAAATCTG	CTCCAGAGCG	CCCTCCACCT
34501	TCAGCCTCAA	GCAGCGAATC	ATGATTGCAA	AAATTCAGGT	TCCTCACAGA	CCTGTATAAG
34561	ATTCAAAAGC	GGAACATTAA	CAAAAATACC	GCGATCCCGT	AGGTCCCTTC	GCAGGGCCAG
34621	CTGAACATAA	TCGTGCAGGT	CTGCACGGAC	CAGCGCGGCC	ACTICCCCGC	CAGGAACCAT
34681	GACAAAAGAA	CCCACACTGA	TTATGACACG	CATACTCGGA	GCTATGCTAA	CCAGCGTAGC
34741	CCCGATGTAA	GCTTGTTGCA	TGGGCGGCGA	TATAAAATGC	AAGGTACTGC	TCAAAAAATC
34801	AGGCAAAGCC	TCGCGCAAAA	AAGCAAGCAC	ATCGTAGTCA	TGCTCATGCA	GATAAAGGCA
34861	GGTAAGTTCC	GGAACCACCA	CAGAAAAAGA	CACCATTTTT	CTCTCAAACA	TGTCTGCGGG
34921	TTCCTGCATA	AACACAAAAT	AAAATAACAA	AAAAAAAAA	ACATITAAAC	ATTAGAAGCC
34981	TGTNTTACAA	CAGGAAAAAC	AACCCTTATA	AGCATAAGAC	GGACTACGGC	CATGCCGGCG
35041	TGACCGTAAA	AAAACTGGTC	ACCGTGATTA	AAAAGCACCA	CCGACAGTTC	CTCGGTCATG

35101	TCCGGAGTCA	TAATGTAAGA	CTCGGTAAAC	ACATCAGGTT	GGTTAACATC	GGTCAGTGCT
					GGCGTAGAGA	
35221	GCCCCCATAG	GAGGTATAAC	AAAATTAATA	GGAGAGAAAA	ACACATAAAC	ACCTGAAAAA
35281	CCCTCCTGCC	TAGGCAAAAT	AGCACCCTCC	CGCTCCAGAA	CAACATACAG	CGCTTCCACA
35341	GCGGCAGCCA	TAACAGTCAG	CCTTACCAGT	AAAAAAACCT	ATTAAAAAAC	ACCACTCGAC
35401	ACGGCACCAG	CTCAATCAGT	CACAGTGTAA	AAAGGGCCAA	GTACAGAGCG	AGTATATATA
35461	GGACTAAAAA	ATGACGTAAC	GGTTAAAGTC	CACAAAAACC	ACCCAGAAAA	CCGCACGCGA
35521	ACCTACGCCC	AGAAACGAAA	GCCAAAAAAC	CCACAACTTC	CTCAAATCTT	CACTTCCGTT
35581	TTCCCACGAT	ACGTCACTTC	CCATTTTAAA	AAAAAACTAC	AATTCCCAAT	ACATGCAAGT
35641	TACTCCGCCC	TAAAACCTAC	GTCACCCGCC	CCGTTCCCAC	GCCCCGCGCC	ACGTCACAAA
35701	CTCCACCCC	TCATTATCAT	ATTGGCTTCA	ATCCAAAATA	AGGTATATTA	TTGATGATG

FIG.11A-14

